UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE 09 MAR 1982

9833824

SUBJECT Potential Hazardous Waste Site

FROM Dave Peters, Chief
Hazardous Waste Section (6ES-SH)

1929

TO Sam Nott, Chief
Enforcement Section (6AW-SE)

Site Name Pine Bluff Arsenal
Location Pine Bluff
Hazsit No. AR 710
TDD No. F 6 2106 1

XREFSA0011

A. Field Report:

T2070-2	attached ( )	
T2070-3 recon sampling	attached (X)	
ISS Compliance Report	attached ( )	
ISS Notification Requirement Form	attached ( )	

B. §311 potential (completed by 6ES-E):

1. §311 sample collected yes ( ) no ( )
2. Analytical results attached yes ( ) no ( )
3. Proposed §311 action: _____

C. Were drinking water wells sampled? yes ( ) no (X)

D. Analytical Data:

1. FIT data review attached ( )

2. Contract lab results:

water	attached (X)	
soil, waste	attached ( )	

3. Houston Lab results attached (X)

E. Comments: _____

cc: Adelle Mitchell (6W-S)
Jim Highland

DRAFT

EPA Form 1320-6 (Rev. 3-76)

DRAFT 8106-1

EPA POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

REGION: 6 | SITE NUMBER (to be assigned by Hq): AR710

GENERAL INSTRUCTIONS: Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition (Section II). File this form in its entirety in the regional Hazardous Waste Log File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME: PINE BLUFF ARSENAL

B. STREET (or other identifier): Hwy. 256 East of Hwy. 365

C. CITY: Pine Bluff | D. STATE: AR | E. ZIP CODE: 71611 | F. COUNTY NAME: Jefferson

G. SITE OPERATOR INFORMATION

1. NAME: U.S. Army
2. TELEPHONE NUMBER: (501)541-3572
3. STREET: Hwy. 365
4. CITY: Pine Bluff
5. STATE: AR
6. ZIP CODE: 71611

H. REALTY OWNER INFORMATION (if different from operator of site)

1. NAME: Same
2. TELEPHONE NUMBER:
3. CITY:
4. STATE:
5. ZIP CODE:

I. SITE DESCRIPTION: U.S. Army arsenal with numerous disposal/storage sites for waste. See attachment A for description of sites inspected by FIT.

J. TYPE OF OWNERSHIP

[X] 1. FEDERAL [ ] 2. STATE [ ] 3. COUNTY [ ] 4. MUNICIPAL [ ] 5. PRIVATE

II. TENTATIVE DISPOSITION (complete this section last)

A. ESTIMATE DATE OF TENTATIVE DISPOSITION (mo., day, & yr.):

B. APPARENT SERIOUSNESS OF PROBLEM: [ ] 1. HIGH [X] 2. MEDIUM [ ] 3. LOW [ ] 4. NONE

C. PREPARER INFORMATION

1. NAME: Thomas N. Smith
2. TELEPHONE NUMBER: (214)742-4521
3. DATE (mo., day, & yr.):

III. INSPECTION INFORMATION

A. PRINCIPAL INSPECTOR INFORMATION

1. NAME: Thomas N. Smith
2. TITLE: FIT-Geologist
3. ORGANIZATION: Ecology & Environment, Inc., 1509 Main St., Dallas, TX 75201
4. TELEPHONE NO. (area code & no.): (214)742-4521

B. INSPECTION PARTICIPANTS

1. NAME	2. ORGANIZATION	3. TELEPHONE NO.
Barry Nash	Ecology & Environment, Inc.	(214)742-4521
Jim Trusley	" "	"
Gene McDonald	" "	"

C. SITE REPRESENTATIVES INTERVIEWED (corporate officials, workers, residents)

1. NAME	2. TITLE & TELEPHONE NO.	3. ADDRESS
Thomas Shook	Environmental Coordinator (501)534-4600	PBA, Pine Bluff, AR 71611
Wendell Fortner	Engineer (501)541-3578	" " "
Ken Mazander	" "	" " "
Bill McDonald	" "	" " "
Dennis Green	Field Inspector (501)371-1701	ADPC&E, Little Rock, AR
Mike Bates	" "	" " "

DRAFT

Continued From Front

III. INSPECTION INFORMATION (continued)

D. GENERATOR INFORMATION (source of waste)

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE GENERATED
US Army	(501)541-3572	PBA Pine Bluff, AR	Munitions, pesticides

E. TRANSPORTER/HAULER INFORMATION

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE TRANSPORTED
US Army	(501)541-3572	PBA Pine Bluff, AR	Munitions, pesticides

F. IF WASTE IS PROCESSED ON SITE AND ALSO SHIPPED TO OTHER SITES, IDENTIFY OFF-SITE FACILITIES USED FOR DISPOSAL.

1. NAME	2. TELEPHONE NO.	3. ADDRESS
N/A		

G. DATE OF INSPECTION (mo., day, & yr.)	H. TIME OF INSPECTION	I. ACCESS GAINED BY: (credentials must be shown in all cases)
Jun. 15-18, 81	NA	[X] 1. PERMISSION [ ] 2. WARRANT

J. WEATHER (describe)
Rainy, mild 70-90°

IV. SAMPLING INFORMATION

A. Mark 'X' for the types of samples taken and indicate where they have been sent e.g., regional lab, other EPA lab, contractor, etc. and estimate when the results will be available.

1. SAMPLE TYPE	2. SAMPLE TAKEN (mark 'X')	3. SAMPLE SENT TO:	4. DATE RESULTS AVAILABLE
a. GROUNDWATER			
b. SURFACE WATER	X(4)	Organics & Inorganics sent to: Versar 6621 Electronics Drive Springfield, VA 22151 Attn. Bill Nivens	Jul. 31, 81
c. WASTE			
d. AIR			
e. RUNOFF	X(10)	EPA Lab: 6608 Hornwood Houston, TX 77074 Attn: Bill Langley	
f. SPILL			
g. SOIL			
h. VEGETATION			
i. OTHER (specify)		See attachment A and photo's 66-79 for locations of samples collected.	

B. FIELD MEASUREMENTS TAKEN (e.g., radioactivity, explosivity, PH, etc.)

1. TYPE	2. LOCATION OF MEASUREMENTS	3. RESULTS
None		

Continue On Page 3

Continued From Page 2

IV. SAMPLING INFORMATION (continued)

C. PHOTOS

1. TYPE OF PHOTOS: [X] a. GROUND [X] b. AERIAL

2. PHOTOS IN CUSTODY OF: EPA Region VI (See Attachments)

D. SITE MAPPED?

[X] YES. SPECIFY LOCATION OF MAPS: USGA White Hall Quadrangle (See Attachments)

E. COORDINATES

1. LATITUDE (deg.-min.-sec.): 34°19'17"N

2. LONGITUDE (deg.-min.-sec.): 92°05'55"W

V. SITE INFORMATION

A. SITE STATUS

[X] 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.)

[ ] 2. INACTIVE (Those sites which no longer receive wastes.)

[ ] 3. OTHER (specify): _____ (Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.)

B. IS GENERATOR ON SITE?

[ ] 1. NO [X] 2. YES (specify generator's four-digit SIC Code): 3483, 3489

C. AREA OF SITE (in acres): 12,800

D. ARE THERE BUILDINGS ON THE SITE?

[ ] 1. NO [X] 2. YES (specify): Offices, warehouses, residences

VI. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

	A. TRANSPORTER		B. STORER		C. TREATER		D. DISPOSER
[X]	1. RAIL	[X]	1. PILE	[X]	1. FILTRATION	[X]	1. LANDFILL
[ ]	2. SHIP	[X]	2. SURFACE IMPOUNDMENT	[X]	2. INCINERATION	[ ]	2. LANDFARM
[ ]	3. BARGE	[X]	3. DRUMS	[ ]	3. VOLUME REDUCTION	[X]	3. OPEN DUMP
[X]	4. TRUCK	[X]	4. TANK, ABOVE GROUND	[ ]	4. RECYCLING/RECOVERY	[X]	4. SURFACE IMPOUNDMENT
[X]	5. PIPELINE	[ ]	5. TANK, BELOW GROUND	[ ]	5. CHEM./PHYS./TREATMENT	[ ]	5. MIDNIGHT DUMPING
[ ]	6. OTHER (specify): See Attachments	[ ]	6. OTHER (specify): See Attachments	[ ]	6. BIOLOGICAL TREATMENT	[X]	6. INCINERATION
				[ ]	7. WASTE OIL REPROCESSING	[ ]	7. UNDERGROUND INJECTION
				[ ]	8. SOLVENT RECOVERY	[ ]	8. OTHER (specify): See Attachments
				[ ]	9. OTHER (specify): See Attachments		

E. SUPPLEMENTAL REPORTS: If the site falls within any of the categories listed below, Supplemental Reports must be completed. Indicate which Supplemental Reports you have filled out and attached to this for..

[X] 1. STORAGE [ ] 2. INCINERATION [X] 3. LANDFILL [X] 4. SURFACE IMPOUNDMENT [ ] 5. DEEP WELL

[ ] 6. CHEM/BIO/PHYS TREATMENT [ ] 7. LANDFARM [ ] 8. OPEN DUMP [ ] 9. TRANSPORTER [ ] 10. RECYCLOR/RECLAIMER

VII. WASTE RELATED INFORMATION

A. WASTE TYPE

[X] 1. LIQUID [X] 2. SOLID [X] 3. SLUDGE [ ] 4. GAS

B. WASTE CHARACTERISTICS

[X] 1. CORROSIVE [X] 2. IGNITABLE [ ] 3. RADIOACTIVE [X] 4. HIGHLY VOLATILE

[X] 5. TOXIC [X] 6. REACTIVE [X] 7. INERT [X] 8. FLAMMABLE

[ ] 9. OTHER (specify):

C. WASTE CATEGORIES

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.

Not for abandoned sites; records are available for active sites.

Continued From Front

VII. WASTE RELATED INFORMATION (continued)

2. Estimate the amount (specify unit of measure) of waste by category; mark 'X' to indicate which wastes are present.

a. SLUDGE	b. OIL	c. SOLVENTS	d. CHEMICALS	e. SOLIDS	f. OTHER
AMOUNT: 3,388,400	AMOUNT: None	AMOUNT: 5	AMOUNT: 1,937,000	AMOUNT: 5,500,000	AMOUNT: 992,000
UNIT OF MEASURE: cubic feet	UNIT OF MEASURE:	UNIT OF MEASURE: tons	UNIT OF MEASURE: cubic feet	UNIT OF MEASURE: cubic feet	UNIT OF MEASURE: gallons
(1) PAINT, PIGMENTS	(1) OILY WASTES	X (1) HALOGENATED SOLVENTS	(1) ACIDS	(1) FLYASH	(1) LABORATORY, PHARMACEUT.
X (2) METALS SLUDGES	(2) OTHER (specify):	X (2) NON-HALOGNTD. SOLVENTS	(2) PICKLING LIQUORS	(2) ASBESTOS	(2) HOSPITAL
(3) POTW		(3) OTHER (specify):	(3) CAUSTICS	(3) MILLING/MINE TAILINGS	(3) RADIOACTIVE
(4) ALUMINUM SLUDGE			X (4) PESTICIDES soils/sediment	(4) FERROUS SMELTING WASTES	(4) MUNICIPAL
X (5) OTHER (specify): Water treatment, sewage treatment, biological research, industrial waste			(5) DYES/INKS	(5) NON-FERROUS SMLTG. WASTES	X (5) OTHER (specify): Decontamination agents
			(6) CYANIDE	X (6) OTHER (specify): Mixed wastes from munitions manufacture testing, and demolition	
			(7) PHENOLS		
			(8) HALOGENS		
			(9) PCB		
			X (10) METALS soils/sediment		
			(11) OTHER (specify):		

9. LIST SUBSTANCES OF GREATEST CONCERN WHICH ARE ON THE SITE (place in descending order of hazard)

1. SUBSTANCE	2. FORM (mark 'X') a. SOLID	b. LIQ.	c. VAPOR	3. TOXICITY (mark 'X') a. HIGH	b. MED.	c. LOW	d. NONE	4. CAS NUMBER	5. AMOUNT	6. UNIT
Cadmium	X			X				7440-43-9	Undetermined	
Arsenic	X			X				7440-38-2	"	
Mercury		X		X				7439-97-6	"	
White phosphorus	X				X			7723-14-0	"	
DDT	X				X			50-29-3	"	
Zinc	X					X		7440-66-6	"	
Magnesium	X					X		7439-95-4	"	
Lead	X					X		7439-92-1	"	

VIII. HAZARD DESCRIPTION

FIELD EVALUATION HAZARD DESCRIPTION: Place an 'X' in the box to indicate that the listed hazard exists. Describe the hazard in the space provided.

X A. HUMAN HEALTH HAZARDS

Imminent health hazards exist at several disposal sites. These include sites 7b, 7c, 10, 17, 20a and 20b (see supplemental reports) which require immediate closure and the installation of monitoring wells.

Continue On Page 5

Continued From Page 4

VIII. HAZARD DESCRIPTION (continued)

☐ B. NON-WORKER INJURY/EXPOSURE

☐ C. WORKER INJURY/EXPOSURE

☒ D. CONTAMINATION OF WATER SUPPLY

Sites 7a, 7b, 7c 10, 12, 17, and 27 (see supplemental reports) possess run-off pathways which link directly to the Arkansas River, a raw water source for public water supplies.

☒ E. CONTAMINATION OF FOOD CHAIN

DDT particulates from sites 7a, 11a, 11b, 11c, 11d, 11e, and 11f may be entering the food chain when water fowl and mammalian predators feed upon possibly - contaminated aquatic life.

☒ F. CONTAMINATION OF GROUND WATER

The potential exists for groundwater contamination at sites 7a, 7b, 7c, 10, 11a, 11b, 11c, 11d, 11e, 11f, 12, 15, 17, 20a, 23, and 38.

☒ G. CONTAMINATION OF SURFACE WATER

See item VIII D.

Continued From Front

VIII. HAZARD DESCRIPTION (continued)

☐ H. DAMAGE TO FLORA/FAUNA

☐ I. FISH KILL

☐ J. CONTAMINATION OF AIR

☒ K. NOTICEABLE ODORS

Noxious sulfuric fumes were encountered at site 7c.

☒ L. CONTAMINATION OF SOIL

Contaminated soils are known to exist at sites 7a, 7b, 7c, 17, 20a, 20b, 24, and are suspected at sites 10 and 12.

☐ M. PROPERTY DAMAGE

Continued From Page 6

VIII. HAZARD DESCRIPTION (continued)

☒ N. FIRE OR EXPLOSION

Evidence of past fires were noticed at site 16a, and the possibility of fires exist at site 20b (see supplemental reports).

☒ O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID

Evidence of past spills were observed at sites 7a, and 20a (see supplemental reports).

☐ P. SEWER, STORM DRAIN PROBLEMS

☐ Q. EROSION PROBLEMS

☐ R. INADEQUATE SECURITY

☐ S. INCOMPATIBLE WASTES

VIII. HAZARD DESCRIPTION (continued)

☐ T. MIDNIGHT DUMPING

☒ U. OTHER (specify):

See Attachment A for proposed sampling plan and recommendations for installing monitoring wells.

IX. POPULATION DIRECTLY AFFECTED BY SITE

A. LOCATION OF POPULATION	B. APPROX. NO. OF PEOPLE AFFECTED	C. APPROX. NO. OF PEOPLE AFFECTED WITHIN UNIT AREA	D. APPROX. NO. OF BUILDINGS AFFECTED	E. DISTANCE TO SITE (specify units)
1. IN RESIDENTIAL AREAS	1,000	1,000	150	1 mile
2. IN COMMERCIAL OR INDUSTRIAL AREAS	1,000	1,000	100	1 mile
3. IN PUBLICLY TRAVELLED AREAS	1,000	1,000	Seibert Rd.	100 ft.
4. PUBLIC USE AREAS (parks, schools, etc.)	200	200	3	1 mile

X. WATER AND HYDROLOGICAL DATA

A. DEPTH TO GROUNDWATER (specify unit)	B. DIRECTION OF FLOW	C. GROUNDWATER USE IN VICINITY
15 feet	East	Domestic
D. POTENTIAL YIELD OF AQUIFER	**E. DISTANCE TO DRINKING WATER SUPPLY (specify unit of measure)**	**F. DIRECTION TO DRINKING WATER SUPPLY**
500 gpm*	On-site	On-site

G. TYPE OF DRINKING WATER SUPPLY

☐ 1. NON-COMMUNITY (< 15 CONNECTIONS*) ☒ 2. COMMUNITY (specify name): Pine Bluff Arsenal (> 15 CONNECTIONS)

☐ 3. SURFACE WATER ☒ 4. WELL

*USGS/Arkansas Geological Commission, 1977

Continue On Page 9

Continued From Page 8

X. WATER AND HYDROLOGICAL DATA (continued)

A. LIST ALL DRINKING WATER WELLS WITHIN A 1/4 MILE RADIUS OF SITE

1. WELL	2. DEPTH (specify unit)	3. LOCATION (proximity to population/buildings)	4. NON-COMMUNITY (mark 'X')	5. COMMUNITY (mark 'X')
PBA	2,000 ft.	On-site*		X
		*These wells are at sufficient depths to be considered safe. These deep aquifers are not recycled on-site.		

I. RECEIVING WATER

1. NAME: Arkansas River

☐ 2. SEWERS ☒ 3. STREAMS/RIVERS ☐ 4. LAKES/RESERVOIRS ☐ 5. OTHER (specify):

6. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS

Suitable for desirable species of fish, wildlife and other aquatic and semi-aquatic life, raw water source for public water supplies, secondary contact recreation, warm water fishery.

XI. SOIL AND VEGITATION DATA

LOCATION OF SITE IS IN:

☐ A. KNOWN FAULT ZONE ☐ B. KARST ZONE ☒ C. 100 YEAR FLOOD PLAIN ☐ D. WETLAND

☐ E. A REGULATED FLOODWAY ☐ F. CRITICAL HABITAT ☒ G. RECHARGE ZONE OR SOLE SOURCE AQUIFER

XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED

Mark 'X' to indicate the type(s) of geological material observed and specify where necessary, the component parts.

'X'	A. OVERBURDEN	'X'	B. BEDROCK (specify below)	'X'	C. OTHER (specify below)
X	1. SAND	X	Pleistocene Alluvium, Arkansas River		
X	2. CLAY	X	" "		
X	3. GRAVEL	X	" "		

XIII. SOIL PERMEABILITY

☐ A. UNKNOWN ☐ B. VERY HIGH (100,000 to 1000 cm/sec.) ☒ C. HIGH (1000 to 10 cm/sec.)

☐ D. MODERATE (10 to .1 cm/sec.) ☐ E. LOW (.1 to .001 cm/sec.) ☐ F. VERY LOW (.001 to .00001 cm/sec.)

G. RECHARGE AREA

☒ 1. YES ☐ 2. NO 3. COMMENTS: Arkansas River alluvial aquifer is recharged throughout floodplain.

H. DISCHARGE AREA

☐ 1. YES ☒ 2. NO 3. COMMENTS:

I. SLOPE

1. ESTIMATE % OF SLOPE	2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC.
10-15%	Northeast

J. OTHER GEOLOGICAL DATA

The site tests atop the alternating sands, clays, and gravels of the Arkansas River alluvial belt.

Continued From Front

XIV. PERMIT INFORMATION

List all applicable permits held by the site and provide the related information.

A. PERMIT TYPE (e.g., RCRA, State, NPDES, etc.)	B. ISSUING AGENCY	C. PERMIT NUMBER	D. DATE ISSUED (mo., day, & yr.)	E. EXPIRATION DATE (mo., day, & yr.)	F. IN COMPLIANCE (mark 'X') 1. YES	2. NO	3. UNKNOWN
RCRA	EPA	AR213820707	11/14/80	Open-ended	X		

XV. PAST REGULATORY OR ENFORCEMENT ACTIONS

☒ NONE ☐ YES (summarize in this space)

NOTE: Based on the information in Sections III through XV, fill out the Tentative Disposition (Section II) information on the first page of this form.

LANDFILLS SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. EVIDENCE OF SITE INSTABILITY *(Erosion, Settling, Sink Holes, etc)*
☐ YES ☒ NO See photo's 1-2

2. EVIDENCE OF IMPROPER DISPOSAL OF BULK LIQUIDS, SEMI-SOLIDS AND SLUDGES INTO THE LANDFILL
☐ YES ☒ NO

3. CHECK RECORDS OF CELL LOCATION AND CONTENTS AND BENCHMARK
☐ YES ☒ NO

4. WASTES SURROUNDED BY SORBENT MATERIAL
☐ YES ☒ NO

5. DIVERSION STRUCTURES ARE EFFECTIVELY CONSTRUCTED AND PROPERLY MAINTAINED
☒ YES ☐ NO

6. EVIDENCE OF PONDING OF WATER ON SITE
☐ YES ☒ NO

7. EVIDENCE OF IMPROPER/INADEQUATE DRAINING
☐ YES ☒ NO

8. ADEQUATE LEACHATE COLLECTION SYSTEM *(If "Yes", specify Type)*
☐ YES ☒ NO No leachate expected for this type of waste

8a. SURFACE LEACHATE SPRING
☐ YES ☒ NO

9. RECORDS OF LEACHATE ANALYSIS
☐ YES ☒ NO

10. GAS MONITORING
☐ YES ☒ NO

11. GROUNDWATER MONITORING WELLS
☒ YES ☐ NO Not specifically related to this site

12. ARTIFICIAL MEMBRANE LINER INSTALLED
☐ YES ☒ NO

13. SPECIFIC CONTAINMENT MEASURES *(Clay Bottom, Sides, etc)*
☒ YES ☐ NO Local clay soil bottom

14. FIXATION *(Stabilization)* OF WASTE
☒ YES ☐ NO White phosphorus was burned before covering

15. ADEQUATE CLOSURE OF INACTIVE PORTION OF FACILITY
☒ YES ☐ NO

16. COVER *(Type)*
Local soil

16a. THICKNESS
2 feet

16b. PERMEABILITY
Moderate

16c. DAILY APPLICATION
☒ YES ☐ NO

LANDFILLS SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. EVIDENCE OF SITE INSTABILITY *(Erosion, Settling, Sink Holes, etc)*
☒ YES ☐ NO See photo's 3-4. Deep (up to 4 ft.) channels have eroded away

2. EVIDENCE OF IMPROPER DISPOSAL OF BULK LIQUIDS, SEMI-SOLIDS AND SLUDGES INTO THE LANDFILL
☐ YES ☒ NO

3. CHECK RECORDS OF CELL LOCATION AND CONTENTS AND BENCHMARK
☐ YES ☒ NO

4. WASTES SURROUNDED BY SORBENT MATERIAL
☐ YES ☒ NO

5. DIVERSION STRUCTURES ARE EFFECTIVELY CONSTRUCTED AND PROPERLY MAINTAINED
☐ YES ☒ NO Run-off follows natural contours

6. EVIDENCE OF PONDING OF WATER ON SITE
☐ YES ☒ NO

7. EVIDENCE OF IMPROPER/INADEQUATE DRAINING
☒ YES ☐ NO Steep slopes have severe erosion problem

8. ADEQUATE LEACHATE COLLECTION SYSTEM *(If "Yes", specify Type)*
☐ YES ☒ NO None

8a. SURFACE LEACHATE SPRING
☐ YES ☒ NO

9. RECORDS OF LEACHATE ANALYSIS
☐ YES ☒ NO

10. GAS MONITORING
☐ YES ☒ NO

11. GROUNDWATER MONITORING WELLS
☒ YES ☐ NO Not specifically related to landfill

12. ARTIFICIAL MEMBRANE LINER INSTALLED
☐ YES ☒ NO

13. SPECIFIC CONTAINMENT MEASURES *(Clay Bottom, Sides, etc)*
☒ YES ☐ NO Local clay in soil

14. FIXATION *(Stabilization)* OF WASTE
☒ YES ☐ NO

15. ADEQUATE CLOSURE OF INACTIVE PORTION OF FACILITY
☒ YES ☐ NO

16. COVER *(Type)*
Local soil

16a. THICKNESS
24 to 36 inches

16b. PERMEABILITY
Moderate to high permeability

16c. DAILY APPLICATION
☒ YES ☐ NO

STORAGE FACILITIES SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. STORAGE AREA HAS CONTINUOUS IMPERVIOUS BASE
☐ YES ☒ NO

2. STORAGE AREA HAS A CONFINEMENT STRUCTURE
☐ YES ☒ NO

3. EVIDENCE OF LEAKAGE/OVERFLOW *(If "Yes", document where and how much runoff is overflowing or leaking from containment)*
☐ YES ☒ NO No liquid materials are stored here. The area is a rubble pile where concrete, asphalt, and wood from the destruction of buildings is piled. Buildings which may have contained hazardous materials were decontaminated before demolition.

4. ESTIMATE TYPE AND NUMBER OF BARRELS/CONTAINERS
None

5. GLASS OR PLASTIC STORAGE CONTAINERS USED
☐ YES ☒ NO

6. ESTIMATE NUMBER AND CAPACITY OF STORAGE TANKS
None. Approximately 2,000 tons of rubber on-site. See photo 5

7. NOTE LABELING ON CONTAINERS
N/A

8. EVIDENCE OF LEAKAGE CORROSION OR BULGING OF BARRELS/CONTAINERS/STORAGE TANKS *(If "Yes", document evidence. Describe location and extent of damage. Take PHOTOGRAPHS)*
☐ YES ☒ NO

9. DIRECT VENTING OF STORAGE TANKS
☐ YES ☒ NO

10. CONTAINERS HOLDING INCOMPATIBLE SUBSTANCES *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
☐ YES ☒ NO

11. INCOMPATIBLE SUBSTANCES STORED IN CLOSE PROXIMITY *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
☐ YES ☒ NO

12. ADEQUATE CONTAINER WASHING AND REUSE PRACTICES
☐ YES ☐ NO N/A

13. ADEQUATE PRACTICES FOR DISPOSAL OF EMPTY STORAGE CONTAINERS
☐ YES ☐ NO N/A

LANDFILLS SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. EVIDENCE OF SITE INSTABILITY *(Erosion, Settling, Sink Holes, etc)*
☒ YES ☐ NO Erosion on banks

2. EVIDENCE OF IMPROPER DISPOSAL OF BULK LIQUIDS, SEMI-SOLIDS AND SLUDGES INTO THE LANDFILL
☒ YES ☐ NO White phosphorus was burned here. Some unburned residue remains.

3. CHECK RECORDS OF CELL LOCATION AND CONTENTS AND BENCHMARK
☐ YES ☒ NO

4. WASTES SURROUNDED BY SORBENT MATERIAL
☐ YES ☒ NO

5. DIVERSION STRUCTURES ARE EFFECTIVELY CONSTRUCTED AND PROPERLY MAINTAINED
☐ YES ☒ NO

6. EVIDENCE OF PONDING OF WATER ON SITE
☒ YES ☐ NO

7. EVIDENCE OF IMPROPER/INADEQUATE DRAINING
☒ YES ☐ NO

8. ADEQUATE LEACHATE COLLECTION SYSTEM *(If "Yes", specify Type)*
☐ YES ☒ NO

8a. SURFACE LEACHATE SPRING
☐ YES ☒ NO

9. RECORDS OF LEACHATE ANALYSIS
☐ YES ☒ NO

10. GAS MONITORING
☐ YES ☒ NO

11. GROUNDWATER MONITORING WELLS
☐ YES ☒ NO

12. ARTIFICIAL MEMBRANE LINER INSTALLED
☐ YES ☒ NO

13. SPECIFIC CONTAINMENT MEASURES *(Clay Bottom, Sides,etc)*
☐ YES ☒ NO

14. FIXATION *(Stabilization)* OF WASTE White phosphorus was burned in place. However, evidence of unexploded grenades was found. See photo's 6-8.
☒ YES ☐ NO

15. ADEQUATE CLOSURE OF INACTIVE PORTION OF FACILITY
☐ YES ☒ NO

16. COVER *(Type)*
None

16a. THICKNESS
None

16b. PERMEABILITY
N/A

16c. DAILY APPLICATION
☐ YES ☒ NO

STORAGE FACILITIES SITE INSPECTION REPORT *(Supplemental Report)*	INSTRUCTION Answer and Explain as Necessary.

1. STORAGE AREA HAS CONTINUOUS IMPERVIOUS BASE
☐ YES ☒ NO

2. STORAGE AREA HAS A CONFINEMENT STRUCTURE
☐ YES ☒ NO

3. EVIDENCE OF LEAKAGE/OVERFLOW *(If "Yes", document where and how much runoff is overflowing or leaking from containment)*
☒ YES ☐ NO Drainage paths through the site are evident (see photo's 10, 11).

4. ESTIMATE TYPE AND NUMBER OF BARRELS/CONTAINERS
None

5. GLASS OR PLASTIC STORAGE CONTAINERS USED
☐ YES ☒ NO

6. ESTIMATE NUMBER AND CAPACITY OF STORAGE TANKS
None-approximately 1,000 $ft.^3$ of material piled and spread over 4 acre site.

7. NOTE LABELING ON CONTAINERS
None

8. EVIDENCE OF LEAKAGE CORROSION OR BULGING OF BARRELS/CONTAINERS/STORAGE TANKS *(If "Yes", document evidence. Describe location and extent of damage. Take PHOTOGRAPHS)*
☐ YES ☒ NO

9. DIRECT VENTING OF STORAGE TANKS
☐ YES ☒ NO

10. CONTAINERS HOLDING INCOMPATIBLE SUBSTANCES *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
☐ YES ☒ NO

11. INCOMPATIBLE SUBSTANCES STORED IN CLOSE PROXIMITY *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
☐ YES ☒ NO

12. ADEQUATE CONTAINER WASHING AND REUSE PRACTICES
☐ YES ☐ NO N/A

13. ADEQUATE PRACTICES FOR DISPOSAL OF EMPTY STCRAGE CONTAINERS
☐ YES ☐ NO N/A

Site 26 - Quality Assurance Drop Test Tower (#6)

STORAGE FACILITIES SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. STORAGE AREA HAS CONTINUOUS IMPERVIOUS BASE
[X] YES [ ] NO Storage is in a concrete basin

2. STORAGE AREA HAS A CONFINEMENT STRUCTURE
[X] YES [ ] NO Concrete dikes

3. EVIDENCE OF LEAKAGE/OVERFLOW *(If "Yes", document where and how much runoff is overflowing or leaking from containment)*
[X] YES [ ] NO An overflow of debris has occurred due to infrequent disposal of material. Also, an old test area nearby contains similar material spread on the ground. (See photo's 12-14)

4. ESTIMATE TYPE AND NUMBER OF BARRELS/CONTAINERS
None

5. GLASS OR PLASTIC STORAGE CONTAINERS USED
[ ] YES [X] NO

6. ESTIMATE NUMBER AND CAPACITY OF STORAGE TANKS
None. Approximately 2 tons of debris resulting from testing smoke grenades and canisters.

7. NOTE LABELING ON CONTAINERS
N/A

8. EVIDENCE OF LEAKAGE CORROSION OR BULGING OF BARRELS/CONTAINERS/STORAGE TANKS *(If "Yes", document evidence. Describe location and extent of damage. Take PHOTOGRAPHS)*
[ ] YES [X] NO

9. DIRECT VENTING OF STORAGE TANKS
[X] YES [ ] NO

10. CONTAINERS HOLDING INCOMPATIBLE SUBSTANCES *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
[ ] YES [X] NO

11. INCOMPATIBLE SUBSTANCES STORED IN CLOSE PROXIMITY *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
[ ] YES [X] NO

12. ADEQUATE CONTAINER WASHING AND REUSE PRACTICES
[ ] YES [ ] NO N/A

13. ADEQUATE PRACTICES FOR DISPOSAL OF EMPTY STORAGE CONTAINERS
[ ] YES [ ] NO N/A

STORAGE FACILITIES SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. STORAGE AREA HAS CONTINUOUS IMPERVIOUS BASE
☐ YES ☒ NO 100 cubic yd. salt pile covered w/asphalt to retard erosion.

2. STORAGE AREA HAS A CONFINEMENT STRUCTURE
☐ YES ☒ NO

3. EVIDENCE OF LEAKAGE/OVERFLOW *(If "Yes", document where and how much runoff is overflowing or leaking from containment)*
☐ YES ☒ NO

4. ESTIMATE TYPE AND NUMBER OF BARRELS/CONTAINERS
N/A

5. GLASS OR PLASTIC STORAGE CONTAINERS USED
☐ YES ☐ NO N/A

6. ESTIMATE NUMBER AND CAPACITY OF STORAGE TANKS
N/A

7. NOTE LABELING ON CONTAINERS
N/A

8. EVIDENCE OF LEAKAGE CORROSION OR BULGING OF BARRELS/CONTAINERS/STORAGE TANKS *(If "Yes", document evidence. Describe location and extent of damage. Take PHOTOGRAPHS)*
☐ YES ☐ NO N/A

9. DIRECT VENTING OF STORAGE TANKS
☐ YES ☐ NO N/A

10. CONTAINERS HOLDING INCOMPATIBLE SUBSTANCES *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
☐ YES ☐ NO
N/A

11. INCOMPATIBLE SUBSTANCES STORED IN CLOSE PROXIMITY *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
☐ YES ☒ NO

12. ADEQUATE CONTAINER WASHING AND REUSE PRACTICES
☐ YES ☐ NO N/A

13. ADEQUATE PRACTICES FOR DISPOSAL OF EMPTY STORAGE CONTAINERS
☐ YES ☐ NO N/A

STORAGE FACILITIES SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. STORAGE AREA HAS CONTINUOUS IMPERVIOUS BASE
☐ YES ☒ NO

2. STORAGE AREA HAS A CONFINEMENT STRUCTURE
☐ YES ☒ NO

3. EVIDENCE OF LEAKAGE/OVERFLOW *(If "Yes", document where and how much runoff is overflowing or leaking from containment)*
☒ YES ☐ NO
Drainage path passes through contaminated area.

4. ESTIMATE TYPE AND NUMBER OF BARRELS/CONTAINERS
None. The productis covered with residue from smoke grenade testing.

5. GLASS OR PLASTIC STORAGE CONTAINERS USED
☐ YES ☒ NO

6. ESTIMATE NUMBER AND CAPACITY OF STORAGE TANKS
None

7. NOTE LABELING ON CONTAINERS
N/A

8. EVIDENCE OF LEAKAGE CORROSION OR BULGING OF BARRELS/CONTAINERS/STORAGE TANKS *(If "Yes", document evidence. Describe location and extent of damage. Take PHOTOGRAPHS)*
☐ YES ☒ NO

9. DIRECT VENTING OF STORAGE TANKS
☐ YES ☒ NO

10. CONTAINERS HOLDING INCOMPATIBLE SUBSTANCES *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
☐ YES ☒ NO

11. INCOMPATIBLE SUBSTANCES STORED IN CLOSE PROXIMITY *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
☐ YES ☒ NO

12. ADEQUATE CONTAINER WASHING AND REUSE PRACTICES
☐ YES ☐ NO N/A

13. ADEQUATE PRACTICES FOR DISPOSAL OF EMPTY STORAGE CONTAINERS
☐ YES ☐ NO N/A

STORAGE FACILITIES SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. STORAGE AREA HAS CONTINUOUS IMPERVIOUS BASE
[X] YES [ ] NO Concrete lined basin

2. STORAGE AREA HAS A CONFINEMENT STRUCTURE
[X] YES [ ] NO Basin is 6 feet deep, but filled to overflowing in spots.

3. EVIDENCE OF LEAKAGE/OVERFLOW *(If "Yes", document where and how much runoff is overflowing or leaking from containment)*
[X] YES [ ] NO
Material is not liquid, but solid residue from test firing smoke and thermite grenades.

4. ESTIMATE TYPE AND NUMBER OF BARRELS/CONTAINERS
None - 1,000 to 1,500 cubic feet of residue on-site

5. GLASS OR PLASTIC STORAGE CONTAINERS USED
[X] YES [ ] NO

6. ESTIMATE NUMBER AND CAPACITY OF STORAGE TANKS
None. One concrete basin, 30' x 30' x 6'.

7. NOTE LABELING ON CONTAINERS
N/A

8. EVIDENCE OF LEAKAGE CORROSION OR BULGING OF BARRELS/CONTAINERS/STORAGE TANKS *(If "Yes", document evidence. Describe location and extent of damage. Take PHOTOGRAPHS)*
[X] YES [ ] NO
Although containment basin is in generally good condition, overflow has occurred (see photo 18).

9. DIRECT VENTING OF STORAGE TANKS
[X] YES [ ] NO

10. CONTAINERS HOLDING INCOMPATIBLE SUBSTANCES *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
[ ] YES [X] NO

11. INCOMPATIBLE SUBSTANCES STORED IN CLOSE PROXIMITY *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
[ ] YES [X] NO

12. ADEQUATE CONTAINER WASHING AND REUSE PRACTICES
[ ] YES [ ] NO N/A

13. ADEQUATE PRACTICES FOR DISPOSAL OF EMPTY STORAGE CONTAINERS
[ ] YES [ ] NO N/A

SURFACE IMPOUNDMENTS SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. TYPE OF IMPOUNDMENT

Earthen. See photo 19

2. STABILITY/CONDITION OF EMBANKMENTS

Good

3. EVIDENCE OF SITE INSTABILITY *(Erosion, Settling, Sink Holes, etc.)*

☐ YES ☒ NO

4. EVIDENCE OF DISPOSAL OF IGNITABLE OR REACTIVE WASTE

☐ YES ☒ NO

5. ONLY COMPATIBLE WASTES ARE STORED OR DISPOSED OF IN THE IMPOUNDMENT

☒ YES ☐ NO

6. RECORDS CHECKED FOR CONTENTS AND LOCATION OF EACH SURFACE IMPOUNDMENT

☒ YES ☐ NO

7. IMPOUNDMENT HAS LINER SYSTEM

☐ YES ☒ NO

7a. INTEGRITY OF LINER SYSTEM CHECKED

☒ YES ☐ NO

7b. FINDINGS

No Liner

8. SOIL STRUCTURE AND SUBSTRUCTURE

Clay soil with sandy clay substrate

9. MONITORING WELLS

☒ YES ☐ NO Wells are in the area; however, none are site specific

10. LENGTH, WIDTH, AND DEPTH

LENGTH 175 ft. WIDTH 175 ft. DEPTH 9 ft.

11. CALCULATED VOLUMETRIC CAPACITY

276,000 cubic feet

12. PERCENT OF CAPACITY REMAINING

55%

13. ESTIMATE FREEBOARD

5 feet

14. SOLIDS DEPOSITION

☐ YES ☒ NO

15. DREDGING DISPOSAL METHOD

None

16. OTHER EQUIPMENT

N/A

SURFACE IMPOUNDMENTS SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. TYPE OF IMPOUNDMENT
Earthen oxidation pond. See photo 20

2. STABILITY/CONDITION OF EMBANKMENTS
Excellent

3. EVIDENCE OF SITE INSTABILITY *(Erosion, Settling, Sink Holes, etc.)*
☐ YES ☒ NO

4. EVIDENCE OF DISPOSAL OF IGNITABLE OR REACTIVE WASTE
☐ YES ☒ NO

5. ONLY COMPATIBLE WASTES ARE STORED OR DISPOSED OF IN THE IMPOUNDMENT
☒ YES ☐ NO

6. RECORDS CHECKED FOR CONTENTS AND LOCATION OF EACH SURFACE IMPOUNDMENT
☒ YES ☐ NO

7. IMPOUNDMENT HAS LINER SYSTEM
☐ YES ☒ NO

7a. INTEGRITY OF LINER SYSTEM CHECKED
☐ YES ☐ NO N/A

7b. FINDINGS
N/A

8. SOIL STRUCTURE AND SUBSTRUCTURE
Clay soil with sandy clay substrate

9. MONITORING WELLS
☒ YES ☐ NO Not related to ox. pond

10. LENGTH, WIDTH, AND DEPTH
LENGTH 1750 ft. WIDTH 350 ft. DEPTH 5 ft.

11. CALCULATED VOLUMETRIC CAPACITY
70 acre feet

12. PERCENT OF CAPACITY REMAINING
System is steady state. 6 to 10% capacity remains to 2 ft. freeboard.

13. ESTIMATE FREEBOARD
Greater than 3 ft.

14. SOLIDS DEPOSITION
☒ YES ☐ NO

15. DREDGING DISPOSAL METHOD
Majority of solids removed at clarifier. Ox. pond is not dredged.

16. OTHER EQUIPMENT
Chlorination system at outfall. System at present is not automatic and is set manually daily. (See photo 12)

SURFACE IMPOUNDMENTS SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. TYPE OF IMPOUNDMENT
Industrial Sludge Lagoon (earthen) See photo 22

2. STABILITY/CONDITION OF EMBANKMENTS
Stable with excellent growth on banks

3. EVIDENCE OF SITE INSTABILITY *(Erosion, Settling, Sink Holes, etc.)*
☐ YES ☒ NO

4. EVIDENCE OF DISPOSAL OF IGNITABLE OR REACTIVE WASTE
☐ YES ☒ NO

5. ONLY COMPATIBLE WASTES ARE STORED OR DISPOSED OF IN THE IMPOUNDMENT
☒ YES ☐ NO

6. RECORDS CHECKED FOR CONTENTS AND LOCATION OF EACH SURFACE IMPOUNDMENT
☒ YES ☐ NO

7. IMPOUNDMENT HAS LINER SYSTEM
☒ YES ☐ NO Unknown material

7a. INTEGRITY OF LINER SYSTEM CHECKED
☐ YES ☒ NO

7b. FINDINGS
N/A

8. SOIL STRUCTURE AND SUBSTRUCTURE
Clay soil with sandy clay substrate

9. MONITORING WELLS
☒ YES ☐ NO Not specifically related to impoundments

10. LENGTH, WIDTH, AND DEPTH
LENGTH 500 ft. WIDTH 80 ft. DEPTH 15 ft.

11. CALCULATED VOLUMETRIC CAPACITY
4.6 million gallons for each of 2 impoundments

12. PERCENT OF CAPACITY REMAINING
Less than 5% in a steady state system

13. ESTIMATE FREEBOARD
18-24 inches

14. SOLIDS DEPOSITION
☒ YES ☐ NO

15. DREDGING DISPOSAL METHOD
Sludge will be dried, treated, and hauled to hazardous landfill when available

16. OTHER EQUIPMENT
At present, only one lagoon is operating as a sludge lagoon.

The other lagoon, although full of water, does not receive any wastewater.

SURFACE IMPOUNDMENTS SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. TYPE OF IMPOUNDMENT
Oxidation pond. See photo 23

2. STABILITY/CONDITION OF EMBANKMENTS
Excellent growth, stable banks

3. EVIDENCE OF SITE INSTABILITY *(Erosion, Settling, Sink Holes, etc.)*
☐ YES ☒ NO

4. EVIDENCE OF DISPOSAL OF IGNITABLE OR REACTIVE WASTE
☐ YES ☒ NO

5. ONLY COMPATIBLE WASTES ARE STORED OR DISPOSED OF IN THE IMPOUNDMENT
☒ YES ☐ NO

6. RECORDS CHECKED FOR CONTENTS AND LOCATION OF EACH SURFACE IMPOUNDMENT
☒ YES ☐ NO

7. IMPOUNDMENT HAS LINER SYSTEM
☐ YES ☒ NO

7a. INTEGRITY OF LINER SYSTEM CHECKED
☐ YES ☐ NO N/A

7b. FINDINGS
N/A

8. SOIL STRUCTURE AND SUBSTRUCTURE
Clay soil with sandy clay substrate

9. MONITORING WELLS
☒ YES ☐ NO Not specifically related to ox. pond

10. LENGTH, WIDTH, AND DEPTH
LENGTH 420 ft. WIDTH 370 ft. DEPTH 6 ft.

11. CALCULATED VOLUMETRIC CAPACITY
19 acre feet

12. PERCENT OF CAPACITY REMAINING
Steady state system - 5-10% capacity remaining

13. ESTIMATE FREEBOARD
24-36 inches

14. SOLIDS DEPOSITION
☒ YES ☐ NO

15. DREDGING DISPOSAL METHOD
None-most solids removed prior to entry into ox. pond.

16. OTHER EQUIPMENT
Chlorinator system

SURFACE IMPOUNDMENTS SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. TYPE OF IMPOUNDMENT
Oxidation pond. See photo 24

2. STABILITY/CONDITION OF EMBANKMENTS
Stable and at least 15 feet wide at top. Excellent cover growth.

3. EVIDENCE OF SITE INSTABILITY *(Erosion, Settling, Sink Holes, etc.)*
☐ YES ☒ NO

4. EVIDENCE OF DISPOSAL OF IGNITABLE OR REACTIVE WASTE
☐ YES ☒ NO

5. ONLY COMPATIBLE WASTES ARE STORED OR DISPOSED OF IN THE IMPOUNDMENT
☒ YES ☐ NO

6. RECORDS CHECKED FOR CONTENTS AND LOCATION OF EACH SURFACE IMPOUNDMENT
☒ YES ☐ NO

7. IMPOUNDMENT HAS LINER SYSTEM
☐ YES ☒ NO

7a. INTEGRITY OF LINER SYSTEM CHECKED
☐ YES ☐ NO N/A

7b. FINDINGS
N/A

8. SOIL STRUCTURE AND SUBSTRUCTURE
Clay soil with sandy clay substrate.

9. MONITORING WELLS
☒ YES ☐ NO Not specifically related to ox. pond, wells are at periphery.

10. LENGTH, WIDTH, AND DEPTH
LENGTH 2875 ft. WIDTH 1,000 ft. DEPTH 15 ft.

11. CALCULATED VOLUMETRIC CAPACITY
1,000 acre ft.

12. PERCENT OF CAPACITY REMAINING
Less than 5%

13. ESTIMATE FREEBOARD
24 to 36 inches

14. SOLIDS DEPOSITION
☒ YES ☐ NO

15. DREDGING DISPOSAL METHOD
Unknown. Operated by City of Pine Bluff

16. OTHER EQUIPMENT

STORAGE FACILITIES SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. STORAGE AREA HAS CONTINUOUS IMPERVIOUS BASE
[X] YES [ ] NO All containers are on an asphalt slab. See photo's 25, 26, 28 & 29.

2. STORAGE AREA HAS A CONFINEMENT STRUCTURE
[ ] YES [X] NO

3. EVIDENCE OF LEAKAGE/OVERFLOW *(If "Yes", document where and how much runoff is overflowing or leaking from containment)*
[ ] YES [X] NO No liquid wastes are kept here, except for minor amounts of laborabory waste. However, containers holding contaminated waste are in some cases exposed to air. Although visible run-off was not noted, the drainage path was sampled.

4. ESTIMATE TYPE AND NUMBER OF BARRELS/CONTAINERS
8 x 64 $ft.^3$ open dumpsters - 360 x 55 gallon drums.

5. GLASS OR PLASTIC STORAGE CONTAINERS USED
[ ] YES [X] NO

6. ESTIMATE NUMBER AND CAPACITY OF STORAGE TANKS
None

7. NOTE LABELING ON CONTAINERS
There is generally no current labelling.

8. EVIDENCE OF LEAKAGE CORROSION OR BULGING OF BARRELS/CONTAINERS/STORAGE TANKS *(If "Yes", document evidence. Describe location and extent of damage. Take PHOTOGRAPHS)*
[ ] YES [X] NO

9. DIRECT VENTING OF STORAGE TANKS
[X] YES [ ] NO Many drums and all dumpsters are open.

10. CONTAINERS HOLDING INCOMPATIBLE SUBSTANCES *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
[ ] YES [X] NO

11. INCOMPATIBLE SUBSTANCES STORED IN CLOSE PROXIMITY *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
[X] YES [ ] NO See photo 27. HCl and NaOH in close proximity, next to container labeled "Carcinogenic Waste Collection Bottle". This is an isolated instance and involves a small amount of material.

12. ADEQUATE CONTAINER WASHING AND REUSE PRACTICES
[X] YES [ ] NO Dumpsters are used for the same purpose.

13. ADEQUATE PRACTICES FOR DISPOSAL OF EMPTY STORAGE CONTAINERS
[X] YES [ ] NO Drums are held until hazardous landfill is complete.

SURFACE IMPOUNDMENTS SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. TYPE OF IMPOUNDMENT

Backwash pond for drinking water system. See photo 30.

2. STABILITY/CONDITION OF EMBANKMENTS

Excellent. Pond consists of concrete basin.

3. EVIDENCE OF SITE INSTABILITY *(Erosion, Settling, Sink Holes, etc.)*

☐ YES ☒ NO

4. EVIDENCE OF DISPOSAL OF IGNITABLE OR REACTIVE WASTE

☐ YES ☒ NO

5. ONLY COMPATIBLE WASTES ARE STORED OR DISPOSED OF IN THE IMPOUNDMENT

☒ YES ☐ NO

6. RECORDS CHECKED FOR CONTENTS AND LOCATION OF EACH SURFACE IMPOUNDMENT

☒ YES ☐ NO

7. IMPOUNDMENT HAS LINER SYSTEM

☒ YES ☐ NO Concrete basin

7a. INTEGRITY OF LINER SYSTEM CHECKED

☐ YES ☒ NO

7b. FINDINGS

N/A

8. SOIL STRUCTURE AND SUBSTRUCTURE

Clay soil with sandy clay substrate

9. MONITORING WELLS

☐ YES ☒ NO

10. LENGTH, WIDTH, AND DEPTH

LENGTH 75 ft. WIDTH 60 ft. DEPTH 7 ft.

11. CALCULATED VOLUMETRIC CAPACITY

32,000 cubic feet

12. PERCENT OF CAPACITY REMAINING

55%

13. ESTIMATE FREEBOARD

3 1/2 to 4 feet

14. SOLIDS DEPOSITION

☒ YES ☐ NO

15. DREDGING DISPOSAL METHOD

Sludge is pumped to drying beds at sewage treatment plant.

16. OTHER EQUIPMENT

Overflows goes to central waste treatment area.

SURFACE IMPOUNDMENTS SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. TYPE OF IMPOUNDMENT

Earthen. See photo's 32 & 33

2. STABILITY/CONDITION OF EMBANKMENTS

Badly eroded, dams have broken

3. EVIDENCE OF SITE INSTABILITY *(Erosion, Settling, Sink Holes, etc.)*

[X] YES [ ] NO Dams have broken and water has drained.

4. EVIDENCE OF DISPOSAL OF IGNITABLE OR REACTIVE WASTE

[ ] YES [X] NO

5. ONLY COMPATIBLE WASTES ARE STORED OR DISPOSED OF IN THE IMPOUNDMENT

[X] YES [ ] NO

6. RECORDS CHECKED FOR CONTENTS AND LOCATION OF EACH SURFACE IMPOUNDMENT

[X] YES [ ] NO

7. IMPOUNDMENT HAS LINER SYSTEM

[ ] YES [X] NO

7a. INTEGRITY OF LINER SYSTEM CHECKED

[X] YES [ ] NO

7b. FINDINGS

No liner

8. SOIL STRUCTURE AND SUBSTRUCTURE

Clay soil with silty clay substrate

9. MONITORING WELLS

[X] YES [ ] NO Wells are in the area but none are site specific.

10. LENGTH, WIDTH, AND DEPTH

LENGTH 700 ft. WIDTH 120 ft. DEPTH 5 ft.

11. CALCULATED VOLUMETRIC CAPACITY

420,000 cubic feet

12. PERCENT OF CAPACITY REMAINING

None

13. ESTIMATE FREEBOARD

N/A

14. SOLIDS DEPOSITION

[ ] YES [X] NO

15. DREDGING DISPOSAL METHOD

None

16. OTHER EQUIPMENT

N/A

STORAGE FACILITIES SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. STORAGE AREA HAS CONTINUOUS IMPERVIOUS BASE
☐ YES ☒ NO

2. STORAGE AREA HAS A CONFINEMENT STRUCTURE
☐ YES ☒ NO

3. EVIDENCE OF LEAKAGE/OVERFLOW *(If "Yes", document where and how much runoff is overflowing or leaking from containment)*
☐ YES ☒ NO

4. ESTIMATE TYPE AND NUMBER OF BARRELS/CONTAINERS
300-400 5 gallon cans

5. GLASS OR PLASTIC STORAGE CONTAINERS USED
☐ YES ☒ NO

6. ESTIMATE NUMBER AND CAPACITY OF STORAGE TANKS
None

7. NOTE LABELING ON CONTAINERS
De-con agents

8. EVIDENCE OF LEAKAGE CORROSION OR BULGING OF BARRELS/CONTAINERS/STORAGE TANKS *(If "Yes", document evidence. Describe location and extent of damage. Take PHOTOGRAPHS)*
☐ YES ☒ NO

9. DIRECT VENTING OF STORAGE TANKS
☐ YES ☐ NO N/A

10. CONTAINERS HOLDING INCOMPATIBLE SUBSTANCES *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
☐ YES ☒ NO

11. INCOMPATIBLE SUBSTANCES STORED IN CLOSE PROXIMITY *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
☐ YES ☒ NO

12. ADEQUATE CONTAINER WASHING AND REUSE PRACTICES
☐ YES ☒ NO

13. ADEQUATE PRACTICES FOR DISPOSAL OF EMPTY STORAGE CONTAINERS
☐ YES ☒ NO

STORAGE FACILITIES SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. STORAGE AREA HAS CONTINUOUS IMPERVIOUS BASE
☐ YES ☒ NO

2. STORAGE AREA HAS A CONFINEMENT STRUCTURE
☐ YES ☒ NO

3. EVIDENCE OF LEAKAGE/OVERFLOW *(If "Yes", document where and how much runoff is overflowing or leaking from containment)*
☒ YES ☐ NO There is evidence of past spills throughout the site. See photo 41

4. ESTIMATE TYPE AND NUMBER OF BARRELS/CONTAINERS
400-500 55-gallon drums. See photo's 40-42

5. GLASS OR PLASTIC STORAGE CONTAINERS USED
☐ YES ☒ NO

6. ESTIMATE NUMBER AND CAPACITY OF STORAGE TANKS
None

7. NOTE LABELING ON CONTAINERS
De-con agents, pesticides, etc.

8. EVIDENCE OF LEAKAGE CORROSION OR BULGING OF BARRELS/CONTAINERS/STORAGE TANKS *(If "Yes", document evidence. Describe location and extent of damage. Take PHOTOGRAPHS)*
☐ YES ☒ NO

9. DIRECT VENTING OF STORAGE TANKS
☐ YES ☐ NO N/A

10. CONTAINERS HOLDING INCOMPATIBLE SUBSTANCES *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
☐ YES ☒ NO

11. INCOMPATIBLE SUBSTANCES STORED IN CLOSE PROXIMITY *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
☐ YES ☒ NO

12. ADEQUATE CONTAINER WASHING AND REUSE PRACTICES
☐ YES ☒ NO

13. ADEQUATE PRACTICES FOR DISPOSAL OF EMPTY STORAGE CONTAINERS
☐ YES ☒ NO

SURFACE IMPOUNDMENTS SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. TYPE OF IMPOUNDMENT

Impregnite sludge lagoon. See photo's 43 & 44

2. STABILITY/CONDITION OF EMBANKMENTS

Good

3. EVIDENCE OF SITE INSTABILITY *(Erosion, Settling, Sink Holes, etc.)*

☐ YES ☒ NO

4. EVIDENCE OF DISPOSAL OF IGNITABLE OR REACTIVE WASTE

☐ YES ☒ NO

5. ONLY COMPATIBLE WASTES ARE STORED OR DISPOSED OF IN THE IMPOUNDMENT

☒ YES ☐ NO

6. RECORDS CHECKED FOR CONTENTS AND LOCATION OF EACH SURFACE IMPOUNDMENT

☒ YES ☐ NO

7. IMPOUNDMENT HAS LINER SYSTEM

☐ YES ☒ NO

7a. INTEGRITY OF LINER SYSTEM CHECKED

☐ YES ☐ NO N/A

7b. FINDINGS

N/A

8. SOIL STRUCTURE AND SUBSTRUCTURE

Clay soil with sandy clay substrate

9. MONITORING WELLS

☒ YES ☐ NO Not specifically related to sludge lagoon.

10. LENGTH, WIDTH, AND DEPTH

LENGTH 30 ft. WIDTH 30 ft. DEPTH 15 ft. at max depth

11. CALCULATED VOLUMETRIC CAPACITY

Approximately 6,500 cubic feet

12. PERCENT OF CAPACITY REMAINING

Less then 5%

13. ESTIMATE FREEBOARD

18 inches. Liquid in pit at time of inspection was all rainwater.

14. SOLIDS DEPOSITION

☒ YES ☐ NO

15. DREDGING DISPOSAL METHOD Pit has never been dredged. In future sludge from the impregnite operation which in past was disposed of here will instead be taken to incinerator.

16. OTHER EQUIPMENT

Operation has not been in use for 3-4 years.

Any overflow (resulting from rainfall) is directed to the central waste treatment system (see photo 43).

Site 7a - Toxic Storage Yard (#25)

STORAGE FACILITIES SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. STORAGE AREA HAS CONTINUOUS IMPERVIOUS BASE
☐ YES ☒ NO

2. STORAGE AREA HAS A CONFINEMENT STRUCTURE
☐ YES ☒ NO

3. EVIDENCE OF LEAKAGE/OVERFLOW *(If "Yes", document where and how much runoff is overflowing or leaking from containment)*
☒ YES ☐ NO

The soil is stained in widely dispersed areas due to the numerous spills which have occurred at this site because of container corrosion.

4. ESTIMATE TYPE AND NUMBER OF BARRELS/CONTAINERS
17,500 55-gallon drums. See photo 46

5. GLASS OR PLASTIC STORAGE CONTAINERS USED
☐ YES ☒ NO

6. ESTIMATE NUMBER AND CAPACITY OF STORAGE TANKS
None

7. NOTE LABELING ON CONTAINERS
De-con agents, DDT

8. EVIDENCE OF LEAKAGE CORROSION OR BULGING OF BARRELS/CONTAINERS/STORAGE TANKS *(If "Yes", document evidence. Describe location and extent of damage. Take PHOTOGRAPHS)*
☒ YES ☐ NO

Deteriorating drums are visible along the northern protion of the site - limited clean-up activities are now in progress and the corroding drums are being re-containerized.

9. DIRECT VENTING OF STORAGE TANKS
☐ YES ☐ NO No tanks

10. CONTAINERS HOLDING INCOMPATIBLE SUBSTANCES *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
☐ YES ☒ NO

11. INCOMPATIBLE SUBSTANCES STORED IN CLOSE PROXIMITY *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
☐ YES ☒ NO

12. ADEQUATE CONTAINER WASHING AND REUSE PRACTICES
☐ YES ☒ NO

13. ADEQUATE PRACTICES FOR DISPOSAL OF EMPTY STORAGE CONTAINERS
☒ YES ☐ NO

SURFACE IMPOUNDMENTS SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. TYPE OF IMPOUNDMENT
Earthen. See photo's 49 & 50

2. STABILITY/CONDITION OF EMBANKMENTS
Excellent

3. EVIDENCE OF SITE INSTABILITY *(Erosion, Settling, Sink Holes, etc.)*
☐ YES ☒ NO

4. EVIDENCE OF DISPOSAL OF IGNITABLE OR REACTIVE WASTE
☐ YES ☐ NO No wastes

5. ONLY COMPATIBLE WASTES ARE STORED OR DISPOSED OF IN THE IMPOUNDMENT
☐ YES ☐ NO No wastes

6. RECORDS CHECKED FOR CONTENTS AND LOCATION OF EACH SURFACE IMPOUNDMENT
☒ YES ☐ NO

7. IMPOUNDMENT HAS LINER SYSTEM
☐ YES ☒ NO

7a. INTEGRITY OF LINER SYSTEM CHECKED
☒ YES ☐ NO

7b. FINDINGS
No liner

8. SOIL STRUCTURE AND SUBSTRUCTURE
Clay soil with sandy clay substrate

9. MONITORING WELLS
☐ YES ☒ NO

10. LENGTH, WIDTH, AND DEPTH
LENGTH 800 ft.* WIDTH 100 ft.* DEPTH 12 ft.*

11. CALCULATED VOLUMETRIC CAPACITY
960,000 gallons*

12. PERCENT OF CAPACITY REMAINING
16%

13. ESTIMATE FREEBOARD
2 feet*

14. SOLIDS DEPOSITION
☐ YES ☒ NO

15. DREDGING DISPOSAL METHOD
None

16. OTHER EQUIPMENT
N/A

*Combined dimensions of two pits

Site 11a - Sediment Retention Basin #1 (SRB-1) (#27)

SURFACE IMPOUNDMENTS SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. TYPE OF IMPOUNDMENT
Earthen. See photo's 51 & 52

2. STABILITY/CONDITION OF EMBANKMENTS
Excellent

3. EVIDENCE OF SITE INSTABILITY *(Erosion, Settling, Sink Holes, etc.)*
☐ YES ☒ NO

4. EVIDENCE OF DISPOSAL OF IGNITABLE OR REACTIVE WASTE
☐ YES ☒ NO

5. ONLY COMPATIBLE WASTES ARE STORED OR DISPOSED OF IN THE IMPOUNDMENT
☒ YES ☐ NO

6. RECORDS CHECKED FOR CONTENTS AND LOCATION OF EACH SURFACE IMPOUNDMENT
☒ YES ☐ NO

7. IMPOUNDMENT HAS LINER SYSTEM
☐ YES ☒ NO

7a. INTEGRITY OF LINER SYSTEM CHECKED
☒ YES ☐ NO

7b. FINDINGS
No liner

8. SOIL STRUCTURE AND SUBSTRUCTURE
Clay soil with sandy clay substrate

9. MONITORING WELLS
☒ YES ☐ NO Wells are in the area; however, none are site specific.

10. LENGTH, WIDTH, AND DEPTH
LENGTH 382 ft. WIDTH 46 ft. DEPTH 6 ft.

11. CALCULATED VOLUMETRIC CAPACITY
88,000 cubic feet

12. PERCENT OF CAPACITY REMAINING
16%

13. ESTIMATE FREEBOARD
1 foot

14. SOLIDS DEPOSITION
☒ YES ☐ NO

15. DREDGING DISPOSAL METHOD
Backhoe, front-end loader

16. OTHER EQUIPMENT
None

SURFACE IMPOUNDMENTS SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. TYPE OF IMPOUNDMENT
Earthen. See photo's 53 & 54

2. STABILITY/CONDITION OF EMBANKMENTS
Excellent

3. EVIDENCE OF SITE INSTABILITY *(Erosion, Settling, Sink Holes, etc.)*
☐ YES ☒ NO

4. EVIDENCE OF DISPOSAL OF IGNITABLE OR REACTIVE WASTE
☐ YES ☒ NO

5. ONLY COMPATIBLE WASTES ARE STORED OR DISPOSED OF IN THE IMPOUNDMENT
☒ YES ☐ NO

6. RECORDS CHECKED FOR CONTENTS AND LOCATION OF EACH SURFACE IMPOUNDMENT
☒ YES ☐ NO

7. IMPOUNDMENT HAS LINER SYSTEM
☐ YES ☒ NO

7a. INTEGRITY OF LINER SYSTEM CHECKED
☒ YES ☐ NO

7b. FINDINGS
No liner

8. SOIL STRUCTURE AND SUBSTRUCTURE
Clay soil with sandy clay substrate

9. MONITORING WELLS
☒ YES ☐ NO Wells are in the area; however, none are site specific

10. LENGTH, WIDTH, AND DEPTH
LENGTH 188 ft. WIDTH 190 ft. DEPTH 6 ft.

11. CALCULATED VOLUMETRIC CAPACITY
178,000 cubic feet

12. PERCENT OF CAPACITY REMAINING
16%

13. ESTIMATE FREEBOARD
1 foot

14. SOLIDS DEPOSITION
☒ YES ☐ NO

15. DREDGING DISPOSAL METHOD
Backhoe, front-end loader

16. OTHER EQUIPMENT
None

SURFACE IMPOUNDMENTS SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. TYPE OF IMPOUNDMENT

Earthen. See photo's 55 & 56

2. STABILITY/CONDITION OF EMBANKMENTS

Excellent

3. EVIDENCE OF SITE INSTABILITY *(Erosion, Settling, Sink Holes, etc.)*

☐ YES ☒ NO

4. EVIDENCE OF DISPOSAL OF IGNITABLE OR REACTIVE WASTE

☐ YES ☒ NO

5. ONLY COMPATIBLE WASTES ARE STORED OR DISPOSED OF IN THE IMPOUNDMENT

☒ YES ☐ NO

6. RECORDS CHECKED FOR CONTENTS AND LOCATION OF EACH SURFACE IMPOUNDMENT

☒ YES ☐ NO

7. IMPOUNDMENT HAS LINER SYSTEM

☐ YES ☒ NO

7a. INTEGRITY OF LINER SYSTEM CHECKED

☒ YES ☐ NO

7b. FINDINGS

No liner

8. SOIL STRUCTURE AND SUBSTRUCTURE

Clay soil with sandy clay substrate

9. MONITORING WELLS

☒ YES ☐ NO Wells are in the area; however, none are site specific.

10. LENGTH, WIDTH, AND DEPTH

LENGTH 292 ft. WIDTH 104 ft. DEPTH 6 ft.

11. CALCULATED VOLUMETRIC CAPACITY

152,000 cubic feet

12. PERCENT OF CAPACITY REMAINING

16%

13. ESTIMATE FREEBOARD

1 foot

14. SOLIDS DEPOSITION

☒ YES ☐ NO

15. DREDGING DISPOSAL METHOD

Backhoe, front-end loader

16. OTHER EQUIPMENT

None

Site 11d, DDT Storage in Basement, Bldg. 54-270 (#30)

STORAGE FACILITIES SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. STORAGE AREA HAS CONTINUOUS IMPERVIOUS BASE
☒ YES ☐ NO

2. STORAGE AREA HAS A CONFINEMENT STRUCTURE
☒ YES ☐ NO

3. EVIDENCE OF LEAKAGE/OVERFLOW *(If "Yes", document where and how much runoff is overflowing or leaking from containment)*
☐ YES ☒ NO

4. ESTIMATE TYPE AND NUMBER OF BARRELS/CONTAINERS
1 container (basement), concrete

5. GLASS OR PLASTIC STORAGE CONTAINERS USED
☐ YES ☒ NO

6. ESTIMATE NUMBER AND CAPACITY OF STORAGE TANKS
No tanks

7. NOTE LABELING ON CONTAINERS
N/A

8. EVIDENCE OF LEAKAGE CORROSION OR BULGING OF BARRELS/CONTAINERS/STORAGE TANKS *(If "Yes", document evidence. Describe location and extent of damage. Take PHOTOGRAPHS)*
☐ YES ☒ NO

9. DIRECT VENTING OF STORAGE TANKS
☐ YES ☐ NO N/A

10. CONTAINERS HOLDING INCOMPATIBLE SUBSTANCES *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
☐ YES ☒ NO

11. INCOMPATIBLE SUBSTANCES STORED IN CLOSE PROXIMITY *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
☐ YES ☒ NO

12. ADEQUATE CONTAINER WASHING AND REUSE PRACTICES
☐ YES ☐ NO N/A

13. ADEQUATE PRACTICES FOR DISPOSAL OF EMPTY STORAGE CONTAINERS
☐ YES ☐ NO N/A

Site 11e - DDT Basement Storage, Bldg. 54 - 325 (#31)

STORAGE FACILITIES SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. STORAGE AREA HAS CONTINUOUS IMPERVIOUS BASE
[X] YES [ ] NO

2. STORAGE AREA HAS A CONFINEMENT STRUCTURE
[X] YES [ ] NO

3. EVIDENCE OF LEAKAGE/OVERFLOW *(If "Yes", document where and how much runoff is overflowing or leaking from containment)*
[ ] YES [X] NO

4. ESTIMATE TYPE AND NUMBER OF BARRELS/CONTAINERS
1 concrete container (basement)

5. GLASS OR PLASTIC STORAGE CONTAINERS USED
[ ] YES [X] NO

6. ESTIMATE NUMBER AND CAPACITY OF STORAGE TANKS
No tanks

7. NOTE LABELING ON CONTAINERS
N/A

8. EVIDENCE OF LEAKAGE CORROSION OR BULGING OF BARRELS/CONTAINERS/STORAGE TANKS *(If "Yes", document evidence. Describe location and extent of damage. Take PHOTOGRAPHS)*
[ ] YES [X] NO

9. DIRECT VENTING OF STORAGE TANKS
[ ] YES [ ] NO N/A

10. CONTAINERS HOLDING INCOMPATIBLE SUBSTANCES *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
[ ] YES [X] NO

11. INCOMPATIBLE SUBSTANCES STORED IN CLOSE PROXIMITY *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
[ ] YES [X] NO

12. ADEQUATE CONTAINER WASHING AND REUSE PRACTICES
[ ] YES [ ] NO N/A

13. ADEQUATE PRACTICES FOR DISPOSAL OF EMPTY STORAGE CONTAINERS
[ ] YES [ ] NO N/A

LANDFILLS SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. EVIDENCE OF SITE INSTABILITY *(Erosion, Settling, Sink Holes, etc)*
☐ YES ☒ NO

2. EVIDENCE OF IMPROPER DISPOSAL OF BULK LIQUIDS, SEMI-SOLIDS AND SLUDGES INTO THE LANDFILL
☐ YES ☒ NO

3. CHECK RECORDS OF CELL LOCATION AND CONTENTS AND BENCHMARK
☒ YES ☐ NO

4. WASTES SURROUNDED BY SORBENT MATERIAL
☒ YES ☐ NO

5. DIVERSION STRUCTURES ARE EFFECTIVELY CONSTRUCTED AND PROPERLY MAINTAINED
☐ YES ☒ NO No diversion structures

6. EVIDENCE OF PONDING OF WATER ON SITE
☐ YES ☒ NO

7. EVIDENCE OF IMPROPER/INADEQUATE DRAINING
☐ YES ☒ NO

8. ADEQUATE LEACHATE COLLECTION SYSTEM *(If "Yes", specify Type)*
☐ YES ☒ NO

8a. SURFACE LEACHATE SPRING
☐ YES ☒ NO

9. RECORDS OF LEACHATE ANALYSIS
☐ YES ☒ NO

10. GAS MONITORING
☐ YES ☒ NO

11. GROUNDWATER MONITORING WELLS
☒ YES ☐ NO Wells are in the area; however, none are site specific

12. ARTIFICIAL MEMBRANE LINER INSTALLED
☐ YES ☒ NO

13. SPECIFIC CONTAINMENT MEASURES *(Clay Bottom, Sides, etc)*
☐ YES ☒ NO

14. FIXATION *(Stabilization)* OF WASTE
☐ YES ☒ NO

15. ADEQUATE CLOSURE OF INACTIVE PORTION OF FACILITY
☒ YES ☐ NO

16. COVER *(Type)*
Clay

16a. THICKNESS
2 feet

16b. PERMEABILITY
Low

16c. DAILY APPLICATION
☐ YES ☒ NO

LANDFILLS SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. EVIDENCE OF SITE INSTABILITY *(Erosion, Settling, Sink Holes, etc)*
☐ YES ☒ NO

2. EVIDENCE OF IMPROPER DISPOSAL OF BULK LIQUIDS, SEMI-SOLIDS AND SLUDGES INTO THE LANDFILL
☐ YES ☒ NO

3. CHECK RECORDS OF CELL LOCATION AND CONTENTS AND BENCHMARK
☒ YES ☐ NO

4. WASTES SURROUNDED BY SORBENT MATERIAL
☒ YES ☐ NO

5. DIVERSION STRUCTURES ARE EFFECTIVELY CONSTRUCTED AND PROPERLY MAINTAINED
☒ YES ☐ NO

6. EVIDENCE OF PONDING OF WATER ON SITE
☐ YES ☒ NO

7. EVIDENCE OF IMPROPER/INADEQUATE DRAINING
☐ YES ☒ NO

8. ADEQUATE LEACHATE COLLECTION SYSTEM *(If "Yes", specify Type)*
☐ YES ☒ NO

8a. SURFACE LEACHATE SPRING
☐ YES ☒ NO

9. RECORDS OF LEACHATE ANALYSIS
☐ YES ☒ NO

10. GAS MONITORING
☐ YES ☒ NO

11. GROUNDWATER MONITORING WELLS
☒ YES ☐ NO Wells are in the area, however, none are site specific.

12. ARTIFICIAL MEMBRANE LINER INSTALLED
☐ YES ☒ NO

13. SPECIFIC CONTAINMENT MEASURES *(Clay Bottom, Sides, etc)*
☐ YES ☒ NO

14. FIXATION *(Stabilization)* OF WASTE
☐ YES ☒ NO

15. ADEQUATE CLOSURE OF INACTIVE PORTION OF FACILITY
☒ YES ☐ NO

16. COVER *(Type)*
Clay

16a. THICKNESS
2 feet

16b. PERMEABILITY
Low

16c. DAILY APPLICATION
☐ YES ☒ NO

SURFACE IMPOUNDMENTS SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. TYPE OF IMPOUNDMENT
Agent BZ retention pond. See photo 62

2. STABILITY/CONDITION OF EMBANKMENTS
Stable

3. EVIDENCE OF SITE INSTABILITY *(Erosion, Settling, Sink Holes, etc.)*
☐ YES ☒ NO

4. EVIDENCE OF DISPOSAL OF IGNITABLE OR REACTIVE WASTE
☒ YES ☐ NO Thermite was disposed here

5. ONLY COMPATIBLE WASTES ARE STORED OR DISPOSED OF IN THE IMPOUNDMENT
☒ YES ☐ NO

6. RECORDS CHECKED FOR CONTENTS AND LOCATION OF EACH SURFACE IMPOUNDMENT
☒ YES ☐ NO

7. IMPOUNDMENT HAS LINER SYSTEM
☐ YES ☒ NO

7a. INTEGRITY OF LINER SYSTEM CHECKED
☒ YES ☐ NO

7b. FINDINGS
No liner

8. SOIL STRUCTURE AND SUBSTRUCTURE
Pleistocene terrace deposits; sandy substrate.

9. MONITORING WELLS
☒ YES ☐ NO 90' ENE of pond

10. LENGTH, WIDTH, AND DEPTH
LENGTH 160 ft. WIDTH 60 ft. DEPTH 12 to 15'

11. CALCULATED VOLUMETRIC CAPACITY
120,000 to 140,000 cubic feet

12. PERCENT OF CAPACITY REMAINING
Less than 5%

13. ESTIMATE FREEBOARD
24 to 36 inches

14. SOLIDS DEPOSITION
☒ YES ☐ NO

15. DREDGING DISPOSAL METHOD
Dredged material spread on banks & ground east of pond, also at site 24 (Thermite waste site).

16. OTHER EQUIPMENT

SURFACE IMPOUNDMENTS SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. TYPE OF IMPOUNDMENT
White smoke test pond (earthen)

2. STABILITY/CONDITION OF EMBANKMENTS
There are no dikes around pond. The natural contours of the land result in a shallow slope to the waste edge. The pond drains to the southeast.

3. EVIDENCE OF SITE INSTABILITY *(Erosion, Settling, Sink Holes, etc.)*
☐ YES ☒ NO

4. EVIDENCE OF DISPOSAL OF IGNITABLE OR REACTIVE WASTE
☒ YES ☐ NO Pond was used to test smoke pots and smoke grenades.

5. ONLY COMPATIBLE WASTES ARE STORED OR DISPOSED OF IN THE IMPOUNDMENT
☒ YES ☐ NO

6. RECORDS CHECKED FOR CONTENTS AND LOCATION OF EACH SURFACE IMPOUNDMENT
☒ YES ☐ NO

7. IMPOUNDMENT HAS LINER SYSTEM
☐ YES ☒ NO

7a. INTEGRITY OF LINER SYSTEM CHECKED
☐ YES ☐ NO N/A

7b. FINDINGS
N/A

8. SOIL STRUCTURE AND SUBSTRUCTURE
Pleistocene terrace deposits, sandy clay substrate.

9. MONITORING WELLS
☒ YES ☐ NO Not specifically related to pond

10. LENGTH, WIDTH, AND DEPTH
LENGTH 400 ft. WIDTH 300 ft. DEPTH 5 ft.

11. CALCULATED VOLUMETRIC CAPACITY
14 acre feet

12. PERCENT OF CAPACITY REMAINING
Pond was draining during inspection, therefore it is at capacity.

13. ESTIMATE FREEBOARD
The freeboard varies considerably around pond. As it is draining to SE, freeboard may be considered zero.

14. SOLIDS DEPOSITION
☒ YES ☐ NO Bottom is littered with smoke grenades and smoke pots.

15. DREDGING DISPOSAL METHOD
None

16. OTHER EQUIPMENT
None

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

Instruction - This sheet is provided to give additional information in explanation of a question on the form T2070-3.

Corresponding number on form	Additional Remark and/or Explanation
I.i.	
X (#1) Site 16a White Phosphorus Settling Pond	Site 16a is the White Phosphorus Settling Pond and Landfill. The site has been closed and abandoned. During its operation, process water from the white phosphorus production area was directed to White Phosphorus Creek (now White Creek). This creek had a 20 x 40 foot concrete retention basin built into it to catch sludge from the White Phosphorus operation. As the sludge accumulated, it was dredged and dumped in a burning area. As white phosphorus ignites upon exposure to air, stabilization required that it be burned prior to burial. The burned material was then put in a diked area or berm and covered daily with up to 2 feet of soil. The present mound measures approximately 100 x 50 x 8 ft. covering an undetermined amount of waste. No final closure of this area ever occurred, but daily application of cover was standard procedure. A final closure of the retention pond has been accomplished and the creek diverted around the more severely contaminated areas. Although a 2 foot cover would seem adequate, evidence of past fires was noticed during the inspection. The source of the fire could not be attributed to the presence of white phosphorus, but the possibility does exist. Additional cover may be necessary..
X (#2) Site 18a Sanitary Landfill	Site 18a is a current sanitary landfill. It is a permitted landfill which is in compliance with state regulations. No hazardous materials have been dumped here, although the rubber shell of a bouncing grenade was discovered on-site during the investigation. Due to the steepness of slope and lack of vegetative cover in areas, several erosional ravines gouge the landfill. Some of these gullies are 3 to 4 feet deep, although quite narrow. Further maintenance may be required at this site; however, there are no indications that hazardous wastes are disposed here.

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

Instruction - This sheet is provided to give additional information in explanation of a question on the form T2070-3.

Corresponding number on form	Additional Remark and/or Explanation
X (#3) Site 18b Facilities Rubble Pile	Site 18b is an open dump for rubble originating from the demolition of buildings or other structures on Pine Bluff Arsenal. All materials are either cleaned or decontaminated before they are brought here. There is no evidence of the disposal of any liquids or hazardous materials; only wood, concrete, and asphalt was observed. Some of the demolished buildings originally contained hazardous materials. Although these were decontaminated prior to demolition and disposal at this site, a periodic check of the completeness of the decontamination procedure may be warranted due to the porous nature of the construction material.
(#4) Site 20b White Phosphorus Slag Burn Pit IMM. HAZ.	Site 20b is an abandoned pit used for the disposal of white phosphorus. While in use, 50 gallon drums of white phosphorus, white phosphorus grenades, and other white phosphorus waste was dumped over the face of a cliff and burned. Analyses of the soil have indicated phosphorus levels of 8760 ppm of PO_4. During the inspection, piles of slag as well as drums and undetonated grenades were noted along the slopes and bottom of the valley. Due to the local topography, drainage through the site is inevitable. Ponded water was evident near the base of the dump area, and a large slough began just down gradient. This slough eventually reaches the Arkansas River. One surface soil sample was taken at this site. White phosphorus is considered a hazardous waste due to its characteristic of ignitability and toxicity. Due to its low solubility (1 part in 300,000) and the surficial hydrologic characteristics of the immediate area, groundwater contamination is not expected to be a major concern. The possibility for surface water contamination, as well as the possibility of fires during drought conditions, dictates the necessity for closure of this site. The AEHA recommends closure of the site in place. However, the removal of contaminated material followed by incineration and disposal at a hazardous landfill should also be investigated. Until closure operations are initiated, the FIT considers an imminent health hazard to exist at this site.

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

Instruction - This sheet is provided to give additional information in explanation of a question on the form T2070-3.

Corresponding number on form	Additional Remark and/or Explanation
(#5) Site 24 Thermite Waste Disposal Site	Site 24 is an active four-acre disposal site for thermite waste from the drop test tower and lead oxide waste from the bomb washout facility. High concentrations of lead oxide, magnesium, titanium, and barium nitrate can be expected at this site. Cadmium and chromium were also detected in previous analyses of the site. Although the metals are generally insoluble or only slightly soluble, the oxides can be poisonous as a dust. Barium, chromium, and cadmium form more soluble compounds and have been demonstrated to be toxic to aquatic life. One sediment sample was taken from the stream south of the site and downstream from the site. Further monitoring of the streams that border the site may be necessary, particularly during rainfalls. Removal of the waste and subsequent disposal in a hazardous waste landfill should be considered.
(#6) Site 26 The Quality Assurance Drop Test Tower	Site 26 is a concrete lined basin used to test fire all types of smoke and thermite grenades. The basin is 30 feet on a side and 6 feet deep, according to arsenal reports. However, the basin appears to be only 6 inches deep. Residue consisting of corroded canisters and grenades covers the bottom to a depth of 2 to 16 inches. The basin drains to a sump 6 x 6 x 6 feet in measurement. Water which collects here is pumped to the central waste treatment area. In the past, solid wastes were either containerized and stored or dumped on the ground at site 24, the Thermite Waste Disposal area. Now the solid wastes are hauled to the incinerator complex. There is a small area adjacent to the drop tower (see photo 14) which appears to contain the same type rubble. This area is unlined and has no containment measures. No obvious run-off paths are visible. Debris in the basin and on the ground should be removed. If found to be hazardous, it should be disposed in a hazardous landfill. Groundwater contamination is a slight possibility due to the relatively shallow depth of the water table. Surface run-off may be a more likely path of contamination. That material which is not in the concrete basins should be addressed first.

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

Instruction - This sheet is provided to give additional information in explanation of a question on the form T2070-3.

Corresponding number on form	Additional Remark and/or Explanation
X (#7) Site 29a Salt Pile	This is a 100 cubic yard salt pile located in the vicinity of an old chlorine manufacturing plant. The pile has been covered with asphalt to retard erosion and is non-hazardous as defined by RCRA. No imminent hazards exist at this site; however, it is recommended that the waste material be removed and landfilled to adequately close the site.
✓ (#8) Site 31a Goat Shed P Test Site	Site 31a is an abandoned smoke grenade test site. Although piles of waste material are not present, approximately one to two acres of ground is covered with residue from the smoke grenades and are devoid of vegetation. As is clearly evident from aerial photos and ground photos (#16, 17), erosional patterns and surface drainage are prevalent on site. Metals and metal oxides are suspected, as well as organic residues from the smoke grenades. This material may have to be removed and taken to a hazardous landfill.
X (#9) Site 31b Grenade Test Basin	The grenade test basin is a concrete lined basin which is used to test all types of smoke and thermite grenades. The basin is drained by a sump which directs run-off to the central waste treatment system. The drainage, at one time, flowed out into surface drainage paths, but this pathway has since been blocked. The site is still used on occasions. While in the past, residue removed from the pit was taken to the Thermite Waste Disposal area (site 24), the current practice is to haul excess residue to the incinerator complex. Proper maintenance of this area should eliminate any potential hazardous waste problems.

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

Instruction - This sheet is provided to give additional information in explanation of a question on the form T2070-3.

Corresponding number on form	Additional Remark and/or Explanation
X (#10) Site 34 NCTR Equalization Pond	This site is a small equalization pond which was used by the National Center for Toxicological Research prior to June 1980. Sludge and water samples have been analyzed by the Army and are non-hazardous as defined by RCRA. No hazards were noted during the inspection and no future sampling is recommended.
X (#11) Site 35 North Oxidation Pond	Site 35 is an active, unlined 70 acre foot oxidation pond. It is listed as outfall 001 on the Pine Bluff Arsenal NPDES permit and is currently in compliance with permit regulations. The pond handles domestic sewage from the National Center for Toxicological Research and the northern portion of the arsenal. No production waters are involved, and there is no evidence of any hazardous materials reaching this particular system. A chlorination system, checked daily by the facilities engineer on the arsenal, adds chlorine to the final effluent. This system does not automatically adjust for changes in flow, and must therefore be changed manually. The effluent travels about 4 miles before entering the Arkansas River. There is no evidence that any hazardous materials are being stored or disposed at this site.
X (#12) Site 36 Industrial Sludge Lagoons	Site 36 consists of two lined lagoons, each having a capacity of approximately 4.6 million gallons. At present, only one lagoon is "on line" to receive wastewater. The water is final treated water which enters the lagoons to settle out solids. The lagoon has not been dredged yet, but future plans call for the disposal of the dried and treated sludge in a planned hazardous landfill. At the present time, the lagoons do not represent a potential hazard.
X (#13) Site 37 South Oxidation Pond	Site 37 is an active, unlined oxidation pond which serves the southern end of Pine Bluff Arsenal. Only domestic wastes are accepted for this disposal system. The outfall passes through South Production Creek to the Arkansas River. There is no indication that hazardous wastes are stored in this pond.

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

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Corresponding number on form	Additional Remark and/or Explanation
X (#14) Site 39 Pine Bluff Oxidation Pond	Site 39 is a 100 acre, unlined oxidation pond leased to the City of Pine Bluff. Access to the pond is not available from the arsenal. There is no indication that hazardous wastes are disposed here. Dennis Green of the Arkansas Department of Pollution Control and Ecology has inspected the facility frequently and found it to be in compliance with all applicable regulations.
✓ P (#15) Site 40 Incinerator Complex	Site 40, the incinerator complex, presently consists of a test incinerator, a deactivation furnace, and a chain-grate incinerator. A fluid bed incinerator will be on-line in 1983. It is not the operation of the incinerators that is of interest in this report, but rather the disposal of wastes which have passed through the incinerators. A temporary storage yard has been constructed adjacent to the incinerator complex and it is here that waste materials accumulate. In a loosely organized fashion, those materials which have already passed through the incinerators are segregated from materials which have not yet been incinerated. There is also some segregation of salvagable materials. The open dumpsters (photo 29) contain material contaminated with white phosphorus. Ash from the incinerators contains cadmium and hexachloroethane. At the time of the inspection, no migration of contaminated materials was noted. However, open drums and dumpsters presented a possible means of migration. A small drainage ditch was therefore sampled downstream from the site.
X (#16) Site 41 Future Hazardous Landfill	This is a future site for the new hazardous waste landfill. Permitting has not been completed and no construction has begun. No inspection was made on this facility. No supplemental form has been prepared for this site as it would be non-applicable.

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

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		Additional Remark and/or Explanation
X	Corresponding number on form (#17) Site 42 Backwash Pond	Site 42 is the backwash pond for the drinking water system. There is no industrial input. The overflow goes to central waste treatment. The sludge is pumped to drying beds at the sewage treatment plant. There is no indication of the presence of hazardous wastes and no indication of a potential hazard.
X	(#18) Site 43 White Phosphorus Pollution Abatement Facility	Site 43 (see photo 31) is an active facility for the dewatering of "phossy water" and air pollution control for the production of white phosphorus (elemental phosphorus). Due to the limited production of white phosphorus, the pollution abatement system has not accumulated enough wastes to initiate the disposal plan. Two operations lead to the generation of waste. The dewatering of "phossy water" leads to the generation of sodium phosphate salts. These salts will be drummed for disposal at the planned hazardous landfill. At present, there is insufficient accumulation to warrant disposal. Any excess water in this stage of the operation is sent to the Central Wastes Treatment Center. The second operation deals with air pollution control. At this stage, white phosphorus drops out as a slag while contaminated water goes to the Central Waste Treatment Center. The slag will be sent to the incinerator complex to be processed by the liquid bed incinerator. At present, no slag has been sent to the incinerator complex, as insufficient quantities have built up to warrant disposal. The white phosphorus pollution abatement facility presently generates no hazardous material. During future operations of the facility, the proper operation of all components of the system will ensure the proper disposal of hazardous materials. No supplemental form has been prepared for this site as it would be non-appplicable.

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

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(#19) Site 7b Lewisite Disposal Site IMM. HAZ.	This is an abandoned 5-acre impoundment with two broken dams. A white limey sludge up to 5 feet thick covers the site and has began to migrate downstream along Phillips Creek. Army analysis of this sludge yeilded high concentrations of arsenic and selenimum with measurable amounts of chromium and mercury. Approximately 420,000 cubic feet of the sludge lies exposed at the site. An imminent health hazard exists because of the contents and mobility of this sludge. The FIT recommends that the site be closed and secured immediately. Monitoring wells should be installed around the site to determine if groundwater contamination has occurred.
(#20) Site 7c Mustard Burn Yard IMM. HAZ.	This is a 1/2 acre site near the southeast corner of the toxic storage yard (site 7a) and was used as a burn yard for old mustard agents. (See photos 34 & 35) Noxious fumes were encountered during the inspection and the soils were observed to be yellow to black. Army laboratory analyses indicated that these soils contain arsenic, chromium, mercury, zinc, and sulfates. A tributary of Phillips Creek flows through this site and represents a potential pathway for contaminants to migrate into the Arkansas River. An imminent health hazrd exists at this site due to the contaminated nature of the soils and their proximity to Phillips Creek. The FIT recommends that the site be closed and secured immediately. Monitoring wells should be installed around the site to determine if groundwater contaminated exists. No supplemental form has been prepared for this site as it would be non-applicable.
(#21) Site 10 Depot Burning and Demolition Area IMM. HAZ.	This is an area of unsorted waste piles of drummed waste, aummunition packing crates and boxes, old ordnance shells, refuse, etc. (See photos 36-39) Four open burning trenches and cages are located along the south-western edge of the site.

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

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(Con't of Site 10)	(con't. of site 10) The Army considers this area an "open dump" as defined by RCRA and recognizes the imminent health hazard it represents. However, no formal closure plans have been adopted. The FIT recommends that the site be closed and secured immediately. Monitoring wells should be installed to determine if groundwater contamination has occurred.
(#22) Site 17 Product Assurance Test Range and Dump Site D IMM. HAZ.	This site was used for the testing of smoke grenades and the disposal of refuse materials such as expended smoke grenades and pyrotechnical devices. This refuse was deposited without cover along and down the escarpment which rims Yellow Lake. Chemical analysis of the residue and soil from the dump site showed evidence of explosive contaminants (2,4 DNT and 2,6 DNT) and cadmium. Yellow Lake collects all run-off from the dump site escarpment and is drained by an unnamed stream which flows directly into the Arkansas River. An imminent health hazard exists at this site due to the contaminated nature of the soils and their tributary link to the Arkansas River. The FIT recommends that this site be immediately closed and secured. Monitoring wells should be installed around the site to determine if groundwater contamination has occurred. No supplemental form has been prepared for this site as it would be non-applicable.
(#23) Site 20a Depot South Burn Pit and Storage Area D IMM HAZ.	This is an old burn and dump site for contaminated explosive materials and drummed miscellaneous waste. Other wastes (wood and metal) are stacked indiscriminately around the site (See photos 40-42). There is evidence of past spills throughout the site and there are no dikes around the perimeter. The area is bounded on the north by a swamp which collects the site run-off and empties directly into the Arkansas River. Chemical analysis of

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

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(Con't. of Site 20a)	(con't. of site 20a) the swamp alluvium and on-site soils indicated high amounts of explosives (RDX; 2, 4 DNT; and 2, 6 DNT) and lead. Barium and cadmium were detectable in small quantities. An imminent health exists at this site due to the contaminated nature of the alluvium/soil and the proximity to the Arkansas River. The FIT recommends that the site be immediately closed and secured. Monitoring wells should be installed around the site to determine if groundwater contamination has occurred.
(#24) Site 38 Impregnite Sludge Lagoon	The impregnite sludge lagoon is an unlined pit, 30 x 30 x 15 feet deep, which received an impregnite and chloroethylene solvent stripper sludge afer alum and lime flocculation treatment. Previous analyses have indicated low levels of cadmium and mercury. The pit was designed for one order, and has not been used in 3 or 4 years. The pit is quite near to being full. Future operation of the impregnit plant will use a system whereby the sludge will be hauled by truck to an incinerator rather than piping it to a settling pond. The aerial photos indicate that the sludge pit is drying out. At the time of the inspection, however, 3 to 4 inches of rainwater covered the pit. A drain system at one end of the pit (see photo 43) directs overflow to the central waste treatment system. A breach in the retaining wall at one corner of the pit is shown in photo 44. This breach is for an unknown purpose, being apparently man made. Close inspection indicated that the slope was towards the pit, so run-off is not expected to be a problem at this area. Groundwater contamintion, however, remains a potential area of concern. The FIT, therefore, recommends that monitoring wells be installed around the pit to determine if groundwater contamination has occurred.
(#25) Site 7a - Toxic Storage Yard	This is a 40-acre facility used to store hazardous materials and wastes. (See photos 45-48) Numerous spills have occurred at this site due to container corrosion and an imminent hazard exists. The Army considers this storage yard an "open dump" and recognizes the need to

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

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(Con't. of Site 7a)	(con't. of site 7a) close the facility. However, no appropriations have been made to adequately secure the site. The FIT recommends that samples be taken from several erosional gullies along the southern boundary of the yard to determine the extent of off-facility contamination. Samples from nearby monitoring wells (WES wells No. 43, 62, 63, 64, 65, 80, and 81) should also be collected to ascertain whether or not current groundwater contamination exists.
(#26) Site 7d TSY Borrow Pits	This site consists of two abandoned borrow trenches south of the toxic storage yard (site 7a). The trenches are parallel and are filled with water. The north trench is an old disposal site for garbage and unknown materials. A spring which flows from the TSY (toxic storage yard) feeds the north pit and oxidizes the sediment to a rusty red color. Laboratory analysis of the sediment indicated the presence of As, Ba, Cd, Hg, and Zn; however, they were well below the hazardous levels as described by RCRA. An Army study has suggested that these pits be closed in place, capped with 18 inches of natural soil, and seeded with a resistant, fast-growing grass to retard erosion. It is recommended by the FIT that the water in these pits be sampled before any de-watering begins. A medium level of hazard should be assigned this site because of its close, downslope proximity to the toxic storage yard and the unknown chemical quality of its water.
(#27) Site 11a Sediment Retention Basin #1 (SRB-1)	This site is one of three sediment retention basins being used to capture run-off and DDT-contaminated sediment from an old DDT manufacturing facility. The sediments from these basins are currently being removed via dredging and placed into the DDT waste landfill (site 11f). No hazards were observed at this site during the inspection; however, samples of nearby monitoring wells (WES wells No. 43, 44, 45, 46, 53, 62, and 67) should be collected to determine if groundwater contamination currently exists.

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

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Corresponding number on form	Additional Remark and/or Explanation
(#28) Site 11b Sediment Retention Basin #2 (SRB-2)	This site is one of three sediment retention basins being used to capture run-off and DDT-contaminated sediment from an old DDT manufacturing facility. The sediments from these basins are currently being removed via dredging and placed into the DDT waste landfill (site 11f). No hazards were observed at this site during the inspection; however, samples of nearby monitoring wells (WES wells No. 43, 44, 45, 46, 53, 62, and 67) should be collected to determine if groundwater contamination currently exists.
(#29) Site 11c Sediment Retention Basin #3 (SRB-3)	This site is one of three sediment retention basins being used to capture run-off and DDT-contaminated sediment from an old DDT manufacturing facility. The sediments from these basins are currently being removed via dredging and placed into the DDT waste landfill (site 11f). No hazards were observed at this site during the inspection; however; samples of nearby monitoring wells (WES wells No. 43, 44, 45, 46, 53, 62, and 67) should be collected to determine if groundwater contamination currently exists.
(#30) Site 11d DDT Storage in Basement, Bldg. 54-270	This is a storage area for crusty-DDT, the contaminated soils from an old DDT manufacturing facility. This material is currently stored (in landfill fashion) in the basement of a partially-demolished building (see photo 57) and has a 2-foot clay cover. Approximately 15,000 cubic feet of DDT-contaminated soils lie buried within this site. No obvious hazards were noted during the inspection. However, sampling of nearby monitoring wells (WES wells No. 43, 44, 45, 46, 53, 62, and 67) is recommended to determine if current groundwater contamination exists.

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

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(#31) Site 11e DDT Basement Storage, Bldg. 54-325	This is a storage area for crusty-DDT, the contaminated soils from an old DDT manufacturing facility. This material is currently stored (in lanfill fashion) in the basement of a demolished building (see photo 58) and has a 2-foot clay cover. Approximately 23,100 cubic feet of DDT-contaminated soils lie buried within this site. No obvious hazards were noted during the inspection. However, sampling of nearby monitoring wells (WES wells No. 43, 44, 45, 46, 53, 62, and 67) is recommended to determine if current groundwater contamination exists.
(#32) Site 11f DDT Waste Landfill	This is a landfill area (see photo 59) used for the disposal of DDT-contaminated soils from an old DDT manufacturing facility and dredge spoil from the three sediment retention basins (sites 11a, 11b, and 11c). Approximately 325,000 cubic feet of material lies buried within this site. No erosional instability was observed and no surficial hazards were noted during the inspection. However, sampling of nearby monitoring wells (WES wells No. 43, 44, 45, 46, 53, 62, and 67) is recommended to determine if current groundwater contamination exists.
(#33) Site 12 Abandoned Mustard Burn Pits	This is an abandoned dump and burn site for mustard munitions. It is surrounded by a dense growth of vegetation and investigations have confirmed the existence of burned, exploded, unexploded, and very weathered mustard munitions. (See photo 60) The area has, however, been treated with a super tropical bleach for decontamination purposes. Approximately 15,000 cubic feet of mustard munitions lie abandoned within the site. This area can be considered an open dump and requires further evaluation and investigation to determine its hazard. Therefore, the FIT recommends that several soil samples be collected from areas downslope of the waste.

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

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Corresponding number on form	Additional Remark and/or Explanation
(Con't of Site 12)	(con't. of site 12) material to determine the extent of surficial contamination. Monitoring wells should also be installed south and east of the site to ascertain whether or not current groundwater contamination exists. No supplemental form has been prepared for this site as it would be non-applicable.
(#34) Site 15 Sanitary Landfill	This is a closed sanitary landfill and DDT site (see photo 61). Approximately 150,000 cubic feet of material lies buried here. The site is currently in compliance with RCRA and no hazards were observed during the inspection. However, monitoring of WES wells No. 15 and 16 is recommended to ascertain whether or not current groundwater contamination exists.
(#35) Site 27 Agent BZ Pond	The Agent BZ pond is an unlined, 1/4 acre impoundment which received the following wastes; Agent BZ, impregnite, thermite and lead oxide (bomb washout of starter mix). Previous analyses of the sludge revealed high concentrations of lead and detectable concentrations of cadmium and barium. A variety of effluents have reached the pond. The wastewater from the agent BZ production facility was directed to this pond after an alkaline was added to destroy the compound. Washwater from the decontamination of the BZ plant was also put into this pond. Subsequent operations yielded wastewaters containing bomb washout of igniter material and impregnite sludges. The impregnite operation which lasted from 1972 to 1975 was the last active use of the pond. The pond is in an area of pleistocene terrace deposits. An intermittent stream flows eastward just north of the pond. It was into this stream that the treated pond water was piped. (See photo 63) Groundwater flow is to the

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

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(Con't. of Site 27)	(con't. of site 27) east, and occurs about 20 feet from the surface. Groundwater monitoring is necessary at this site. At present, one monitoring well is located east-northeast of the site. Upgradient and downgradient wells should be installed and monitored. In addition, the FIT recommends that samples be collected from the small stream north of the site (water/sediment, upstream & downstream) and checked for inorganics.
(#36) Site 23 White Smoke Test Pond	The White Smoke test pond is an unlined pond used for testing white smoke grenades and smoke pots. In addition, materials relating to the testing of these products have been dumped here. Analyses of the materials by the arsenal has indicated high levels of cadmium, lead, and zinc. An inspection of the pond revealed a site littered with refuse from the testing process. The pond bottom was almost covered with spent grenades and smoke pots (see photos 64-65). In addition the water was lifeless and had a pH of 5 to 5.5. A sediment sample was taken from the drainage area southeast of the pond. Since the pond is unlined, a potential exists for groundwater contamination. Further monitoring of the waste characteristics and water chemistry may be necessary to fully determine the extent of the hazard at this site. The FIT therefore recommends that an aqeuous sample be collected from the pond to determine this potential. Monitoring wells should also be installed around the pond to ascertain whether or not groundwater contamination has occurred.

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
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IVA.3.	Samples Collected on 18, 19 June 1981. Samples were collected along possible run-off pathways within the arsenal and from several streams/swamps situated near the arsenal boundary. They are listed below: Aqueous Samples Location 01 - Phillip's Creek confluence with Arkansas River (photo 66) Location 02 - Yellow Lake discharge at arsenal boundary (photo 67) Location 03 - Site 20a; 800 ft. east of entrance road (photo 68) Location 04 - Production Creek, 1470 ft. southwest of arsenal boundary (photo 69) Soil/Sediment Samples Location 05 - Site 23a; 270 ft. 71° from south end of pond (photo 70) Location 06 - Site 31a; 133 ft. 255° from "goat shed" (photo 71) Location 07 - Site 24; 412 ft. 196° from entrance (photo 72) Location 08 - Site 17; 20 ft. from Yellow Lake, 33° from bldg. 544-220 (photo 73) Location 09 - Site 40; 50 ft. 275 ° from bldg. 42-823 (photo 74) Location 10 - Site 20b; 35 ft. 100° from east end (photo 75)

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

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(Con't. of IV.A.)	Soil/Sediment Samples Location 11 - Site 10; Trench #3, 160 ft. toward Phillip's Creek (photo 76) Location 12 - Site 10; Trench #4, 290 ft. toward Phillip's Creek (photo 77) Location 13 - Site 7c; 20 ft. west of site along stream (photo 79) Location 14 - Site 7b; 30 ft. west of dam on east edge (photo 78)
VIII.U.	Proposed Sampling Plan (See I.i. and Supplemental Reports) Soil Samples: Site 7a (Toxic Storage Yard) Sample from several erosional gullies along southern boundary to determine off facility contamination (organics/ inorganics). Site 12 (Abandoned Mustard Burn Pits) Several samples from downslope areas to determine extent of surficial contamination (inorganics). Aqueous Samples: Site 7d (TSY Borrow Pits) North, south pits - analyzed for organics and inorganics. Sites 11a, 11b, 11c, 11d, 11e, 11f, (DDT Areas) Samples collected from WES wells No. 43, 44, 45, 46, 53, 62 and 67- analyzed for pesticides. Site 15 (Sanitary Landfill) Samples collected from WES wells No. 15 and 16 - analyzed for organics and inorganics.

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

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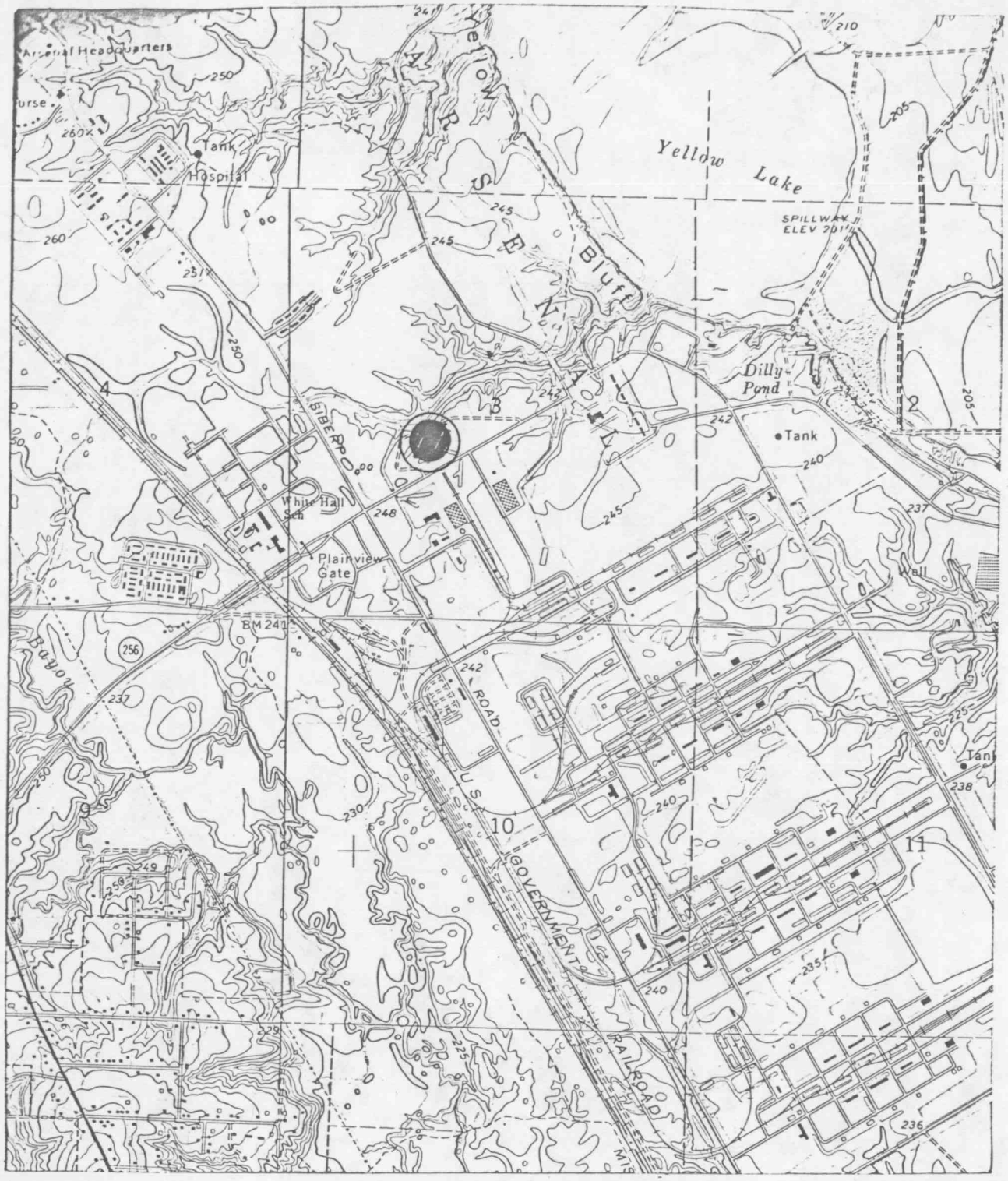
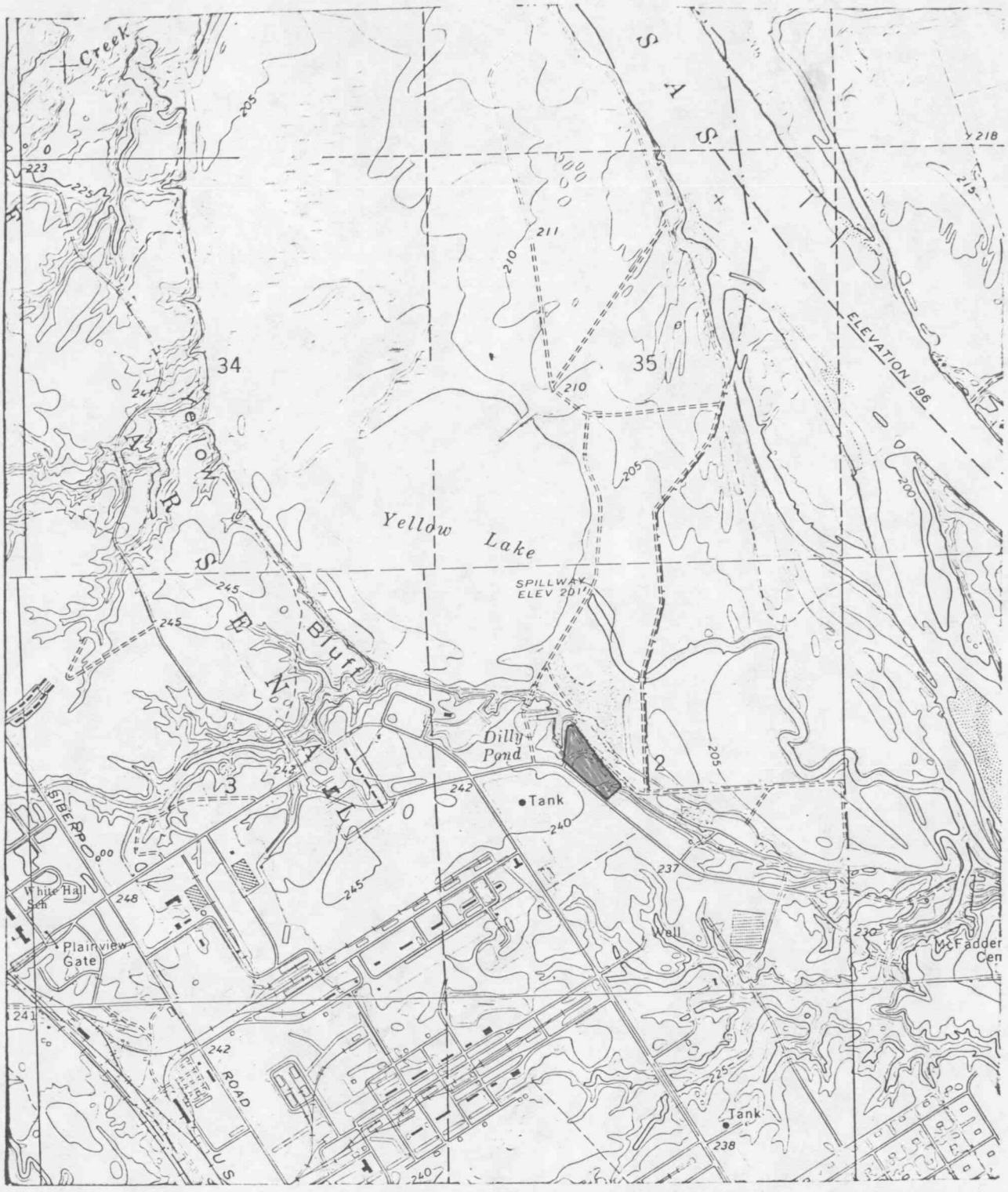
(Con't. of VIII.U.)	Aqueous Samples: Site 23 (White Smoke Test Pond) Sample collected from pond - analyzed for inorganics/pH.
	Combination Aqueous/ Sediment: Site 27 (Agent BZ Pond) Upstream/downstream water/sediment samples from small stream north of site - analyzed for inorganics.
	Proposed Monitoring Well Installation
	The FIT recommends that monitoring wells (1 upgradient, 3 downgradient) be installed at the following sites to determine whether or not groundwater contamination has occurred:
	Site 7b, Lewisite Disposal Site Site 7c, Mustard Burn Yard Site 10, Depot Burning and Demolition Area Site 17, Product Assurance Test Range and Dumpsite . Site 20a, Depot South Burn Pit and Storage Area Site 23, White Smoke Test Pond Site 38, Impregnite Sludge Lagoon Site 12, Abandoned Mustard Burn Pits Site 27, Agent BZ Pond



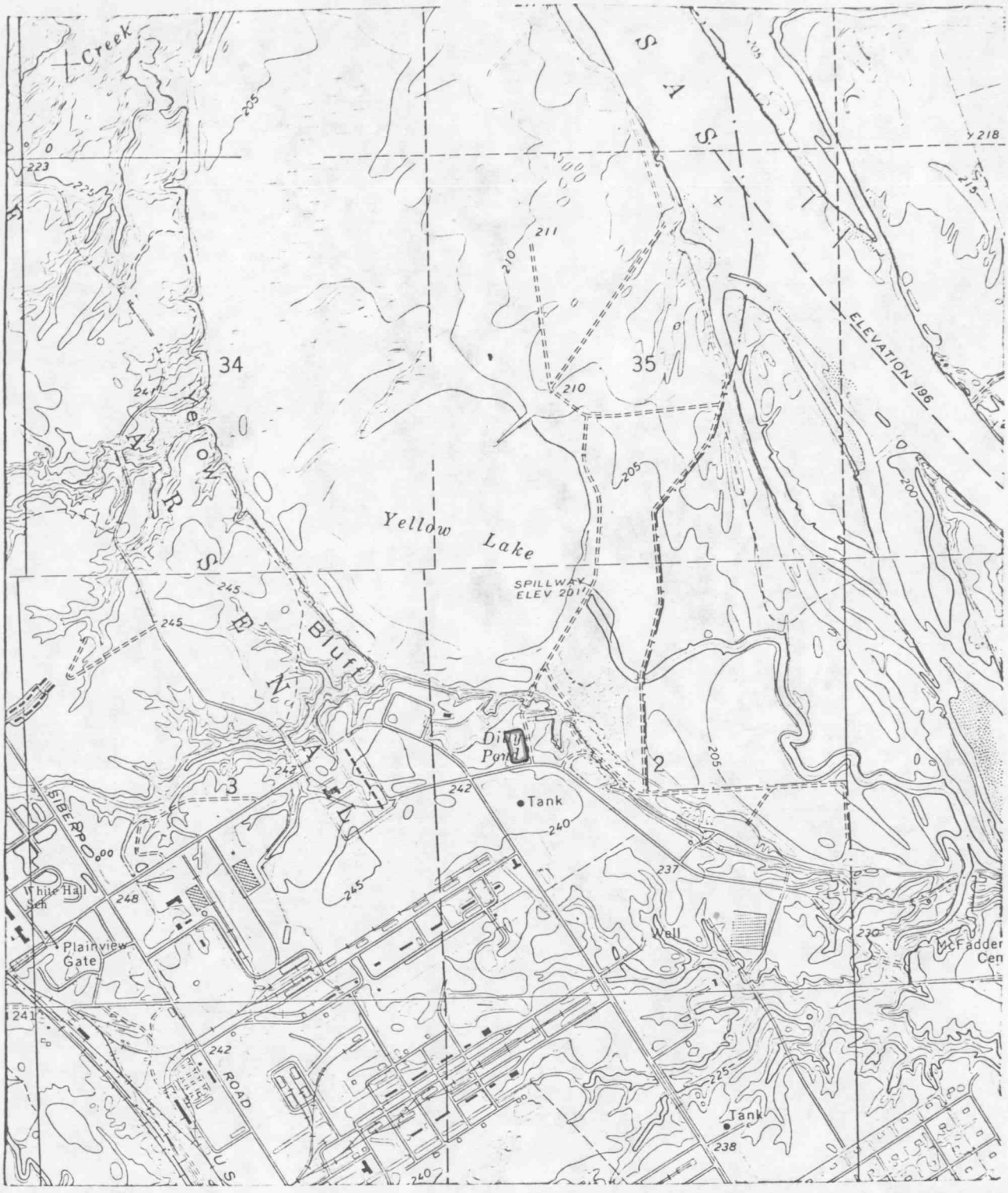
Site 16 a White Phosphorus Settling Pond

Scale: 1 inch = 2000 feet USGS map White Hall, Ark.



Site 18-a Current Sanitary Landfill

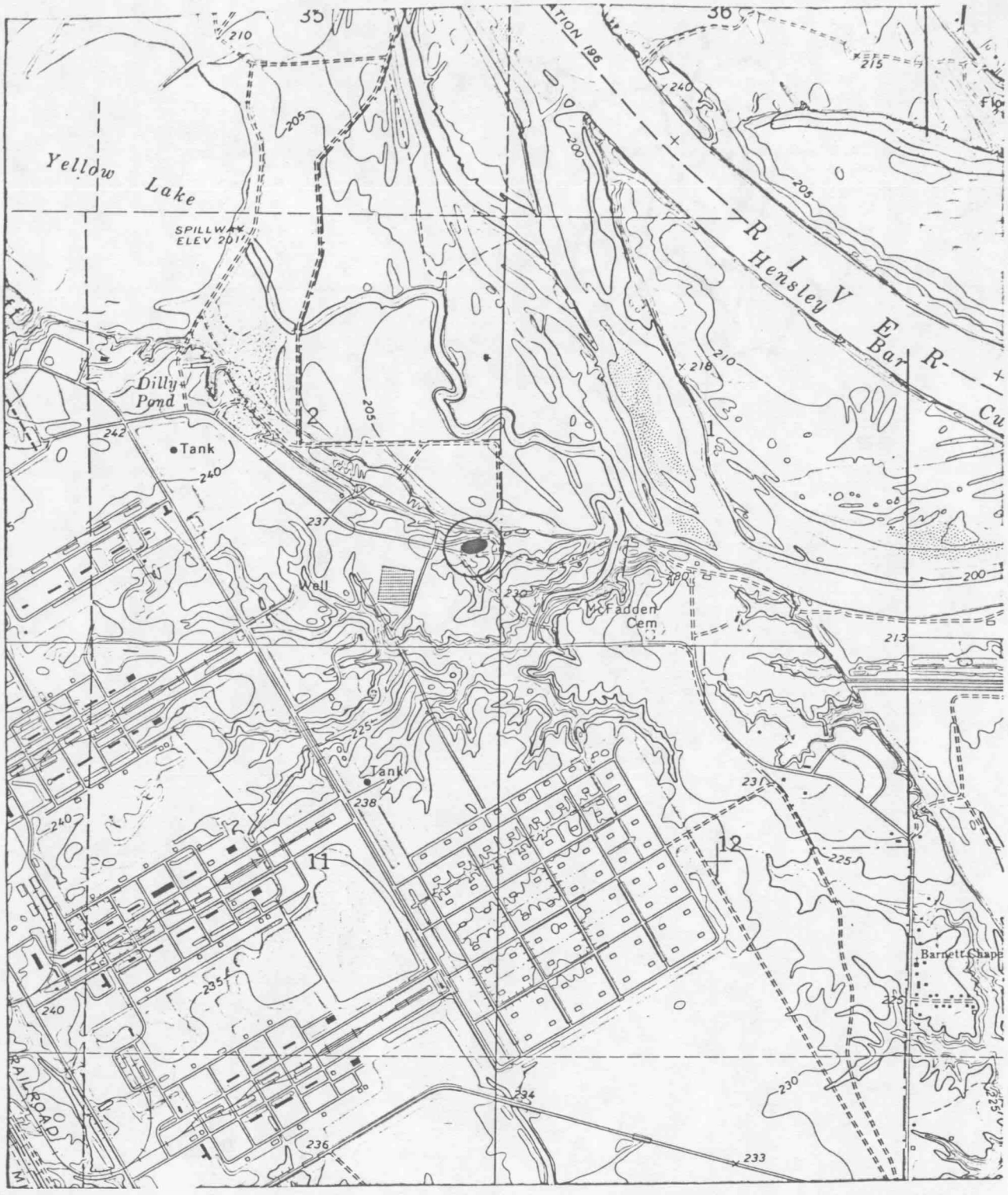
Scale: 1 inch = 2000 feet USGS map White Hall, Ark.



Site 18-b Facilities Rubble Pile

Scale: 1 inch = 2000 feet

USGS map White Hall, Ark.



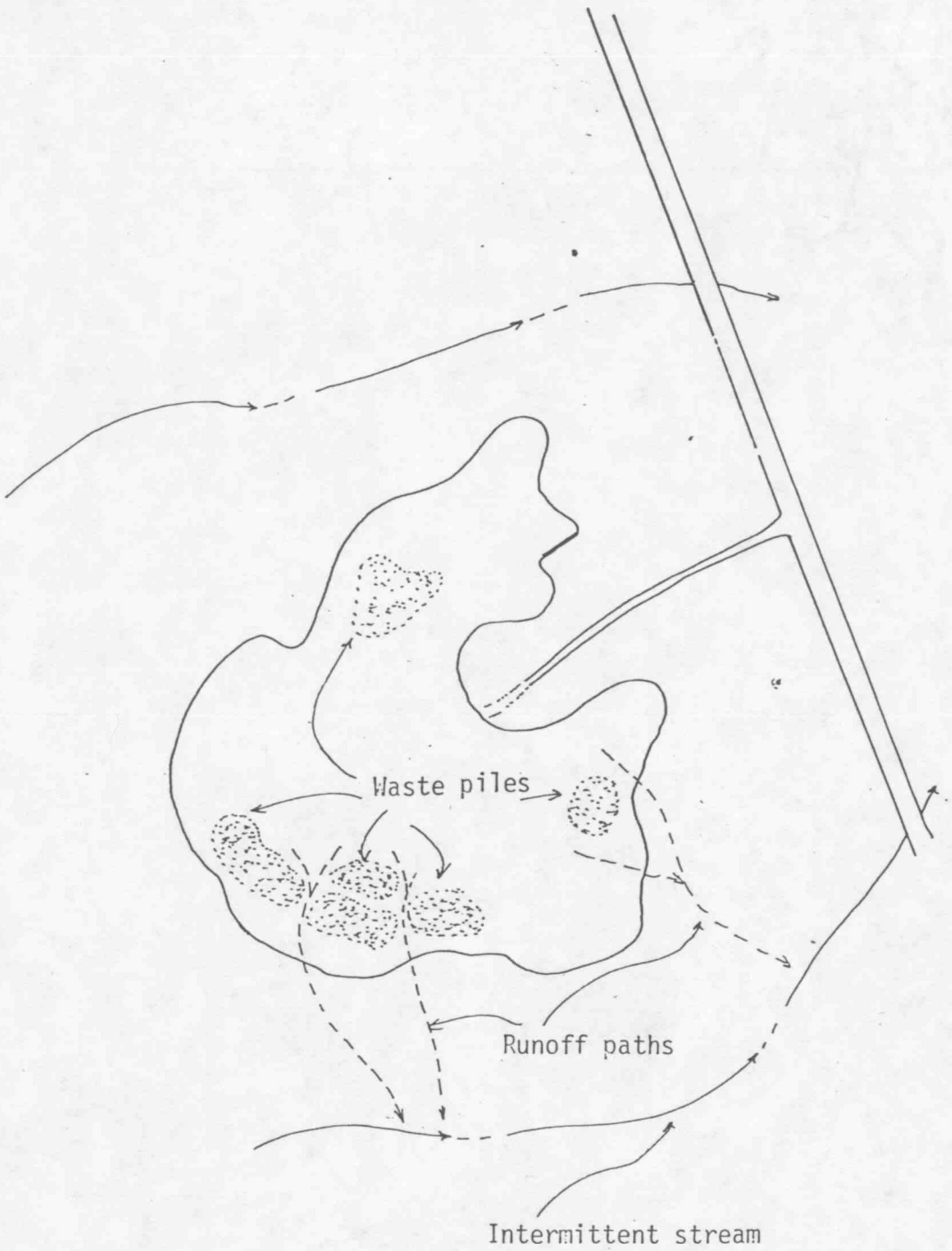
Site 20 b White Phosphorus Slag Burn Pit

Scale: 1 inch = 2000 feet USGS map White Hall, Ark.

Site 24 Thermite Waste Disposal

Scale: 1 inch = 2000 feet

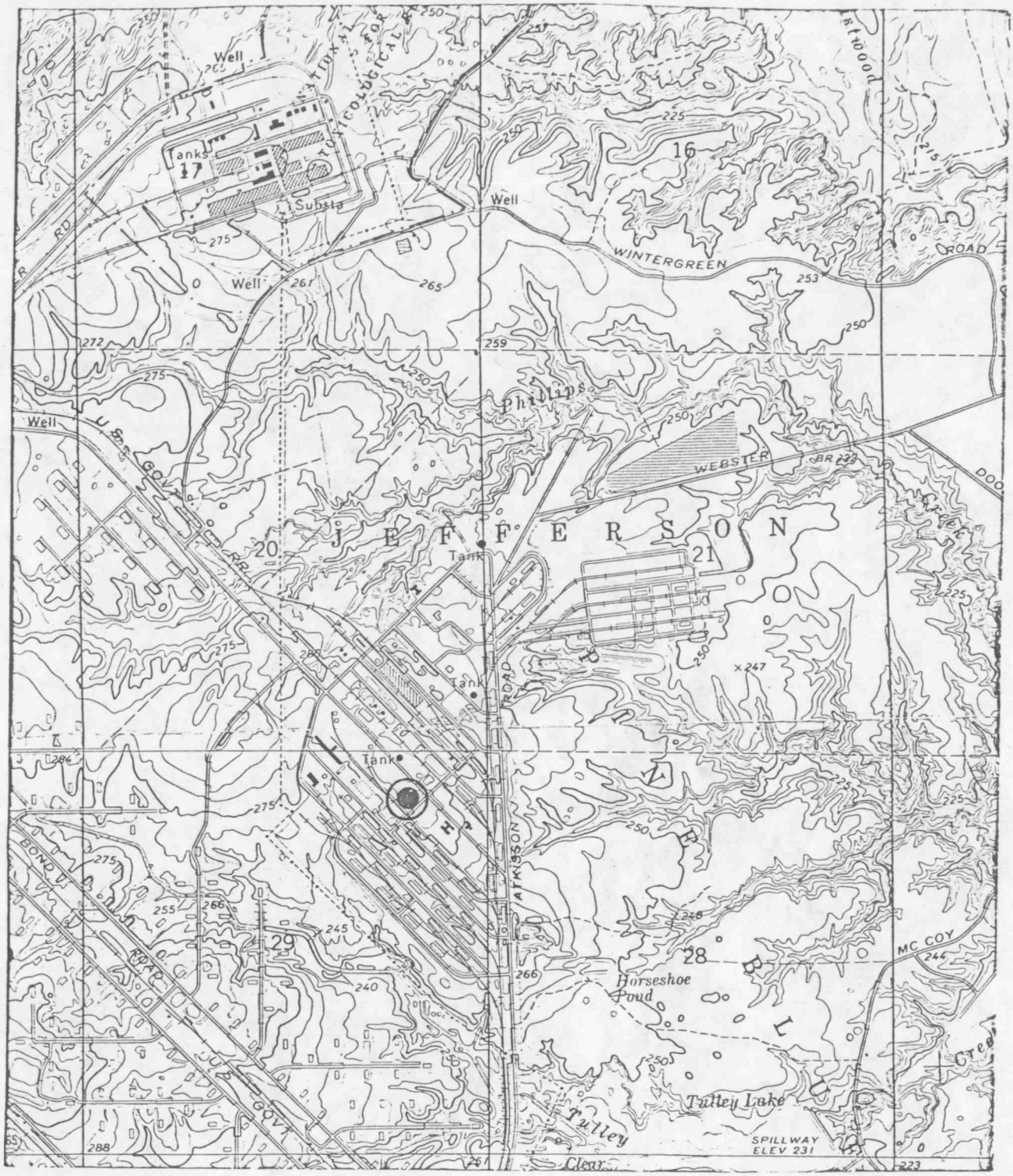
USGS map White Hall, Ark.



Site 24 Thermite Waste Disposal Site

Site 26 Quality Assurance Drop Test Tower

Scale: 1 inch = 2000 feet USGS map White Hall, Ark.



Site 29a Salt Pile

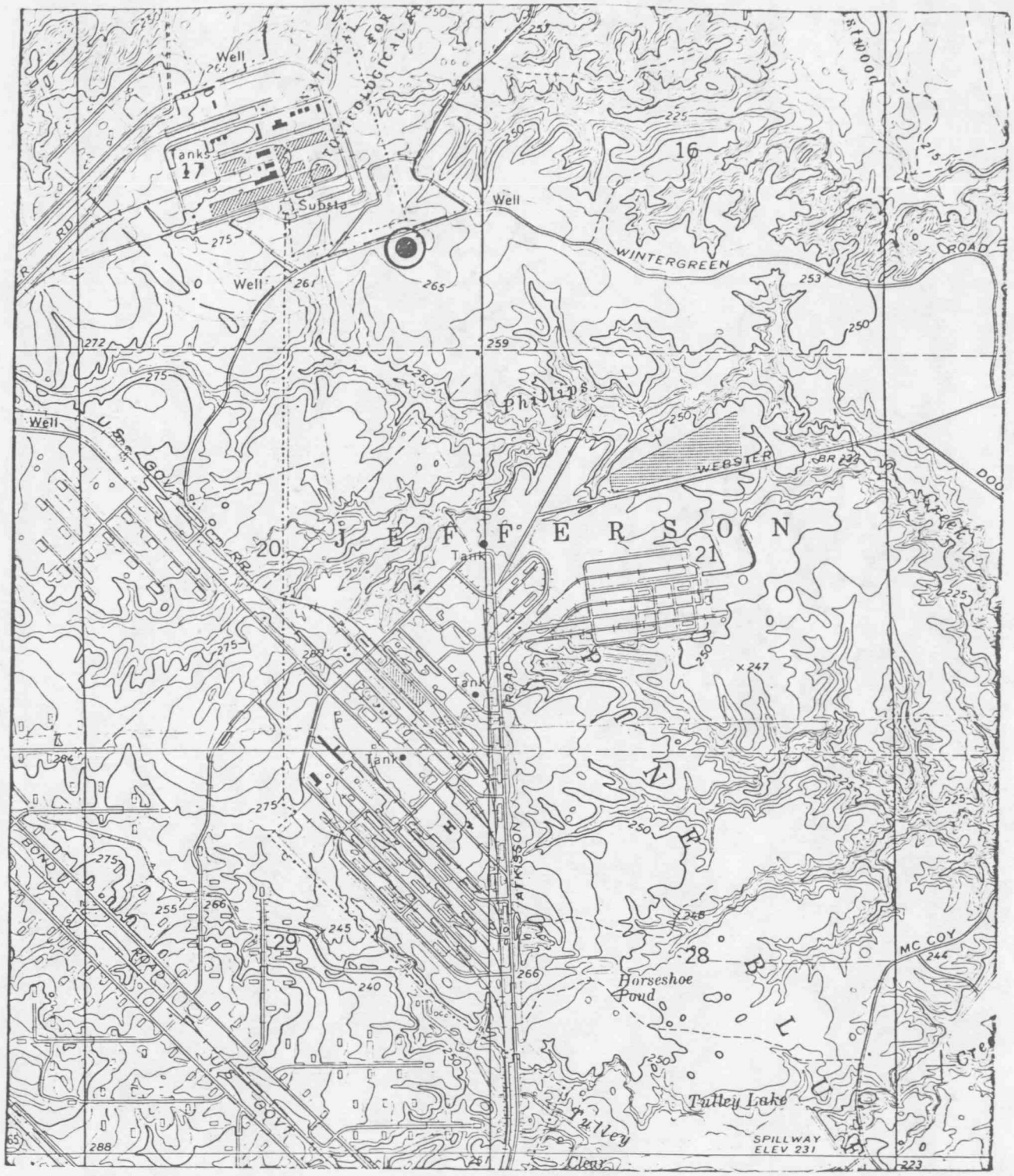
USGS

Site 31a Goat Shed Test Site

USGS

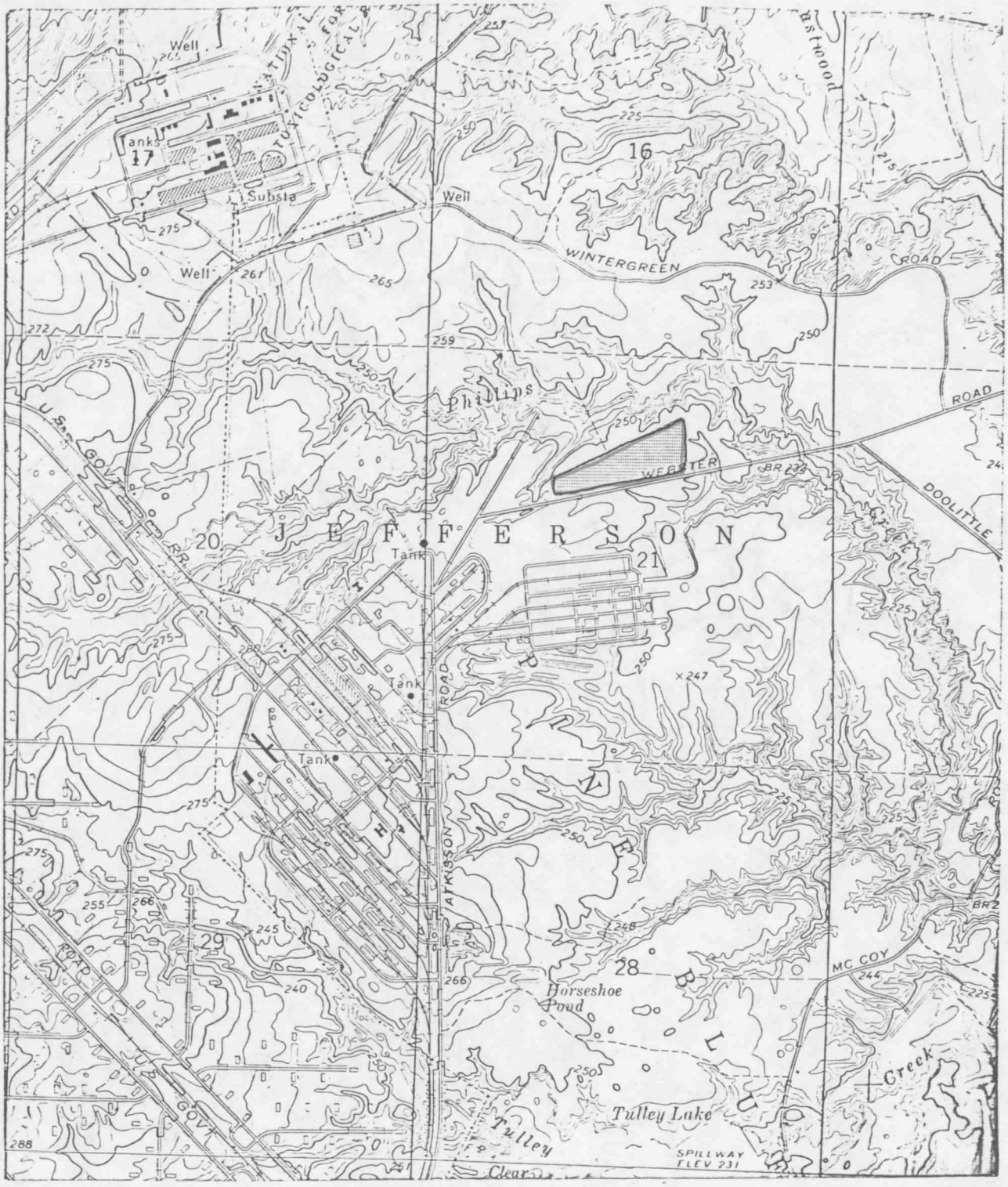
Site 31-b Grenade Test Basin

Scale: 1 inch = 2000 feet USGS map White Hall, Ark.



Site 34 NCTR Equalization Pond

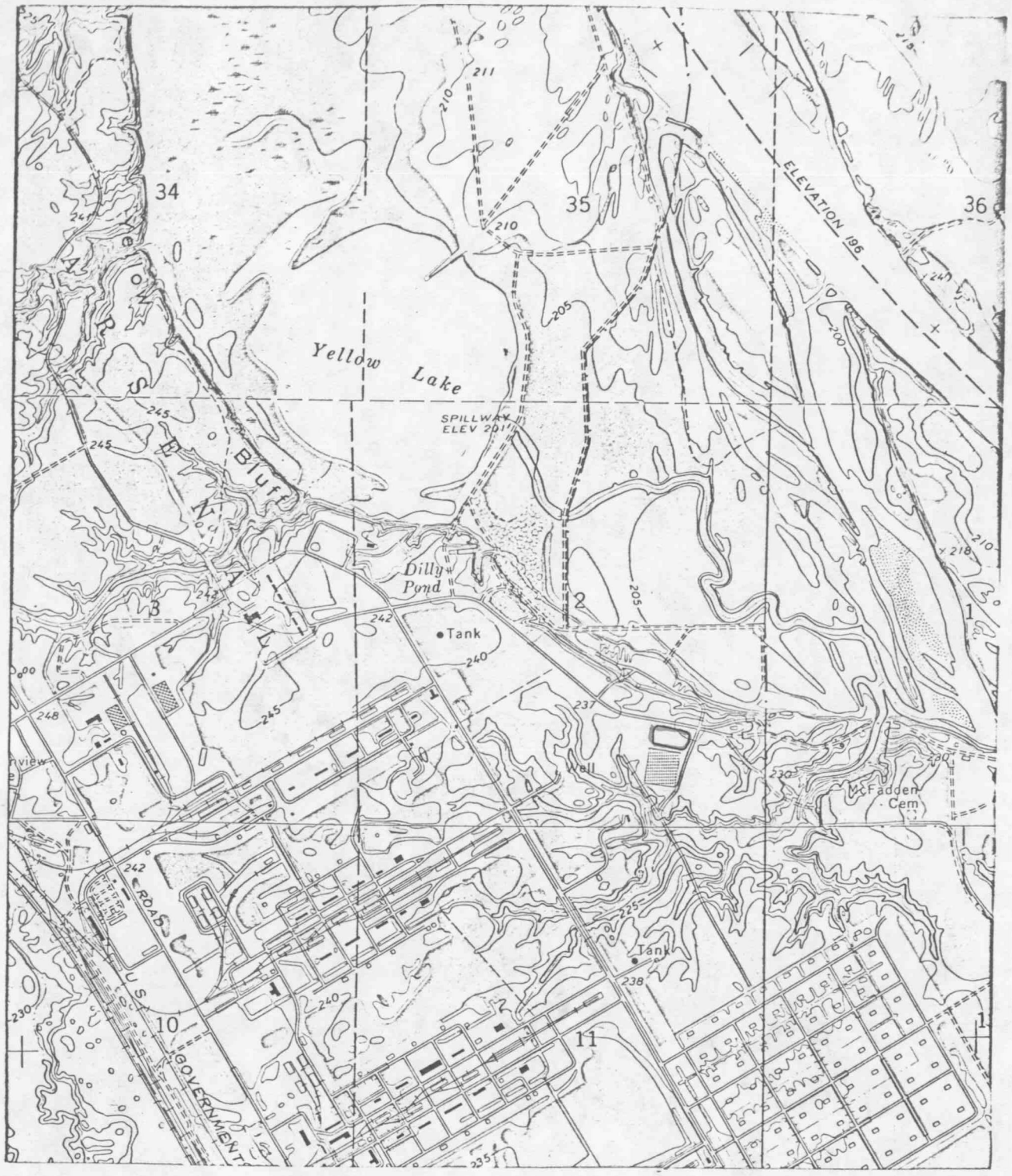
USGS



Site 35 North Oxidation Pond

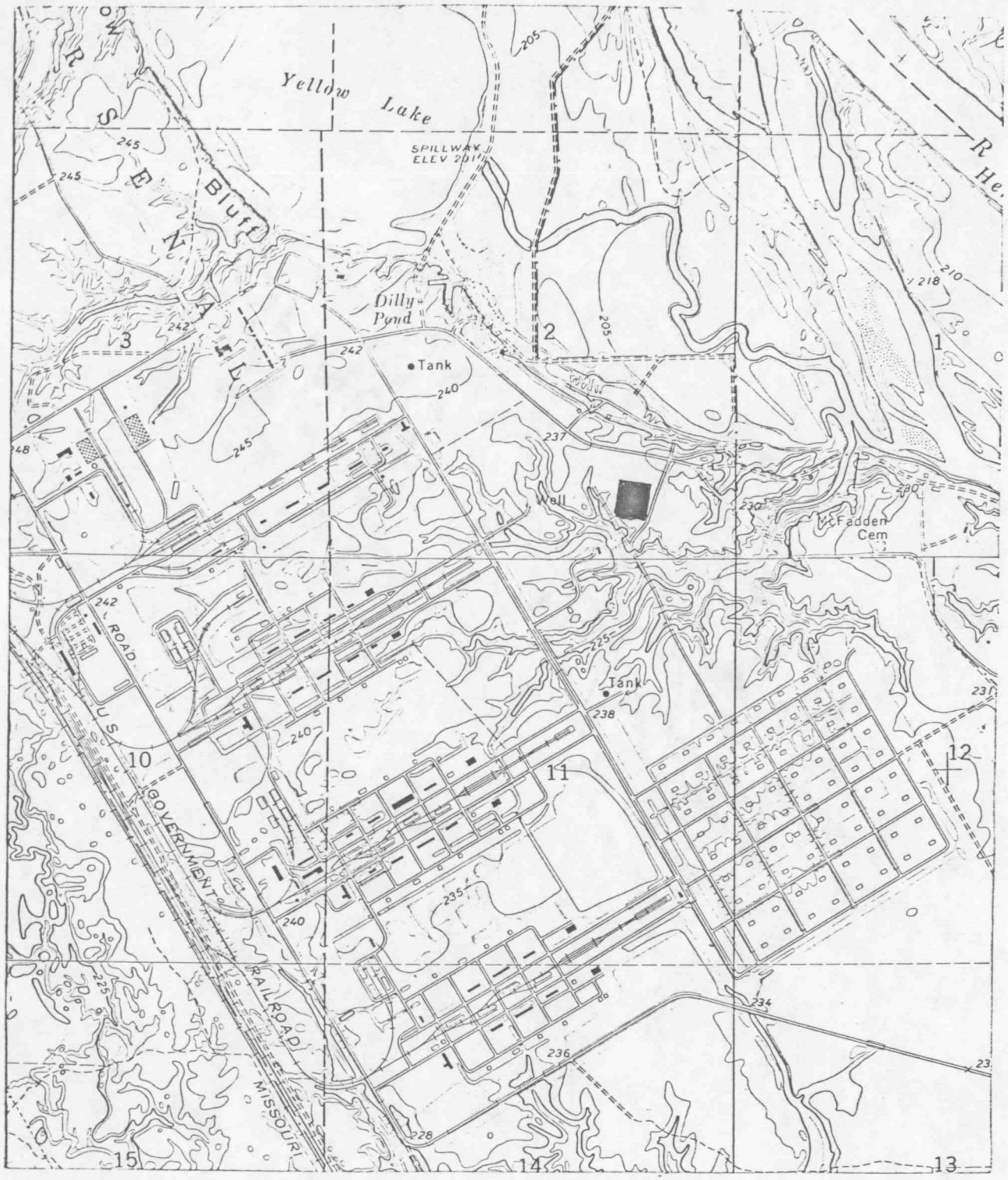
Scale: 1 inch = 2000 feet

USGS map White Hall, Ark.



Site 36 Industrial Sludge Lagoon

Scale: 1 inch = 2000 feet USGS map White Hall, Ark.

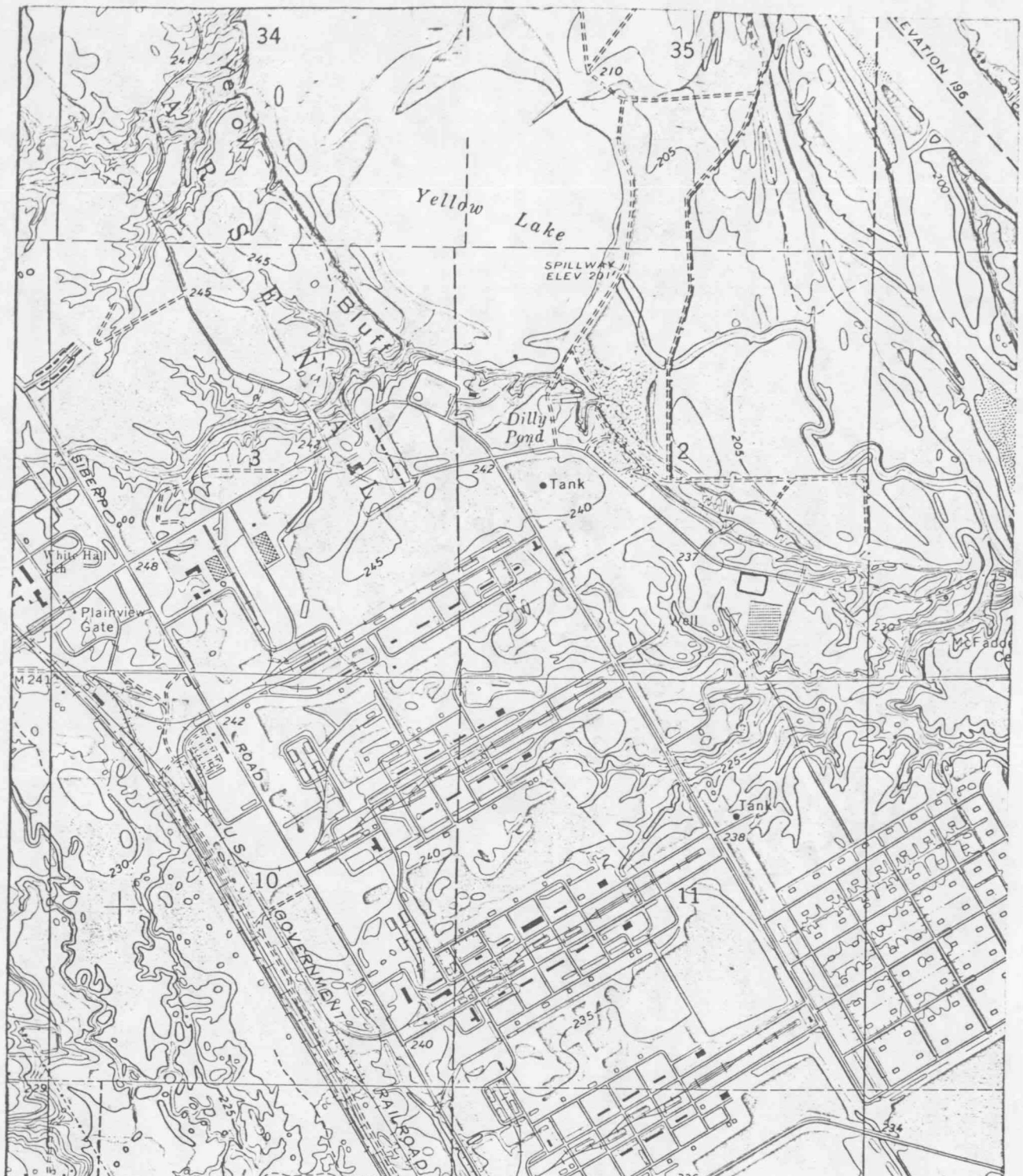


Site 37 South Oxidation Pond

Scale: 1 inch = 2000 feet USGS map White Hall, Ark.

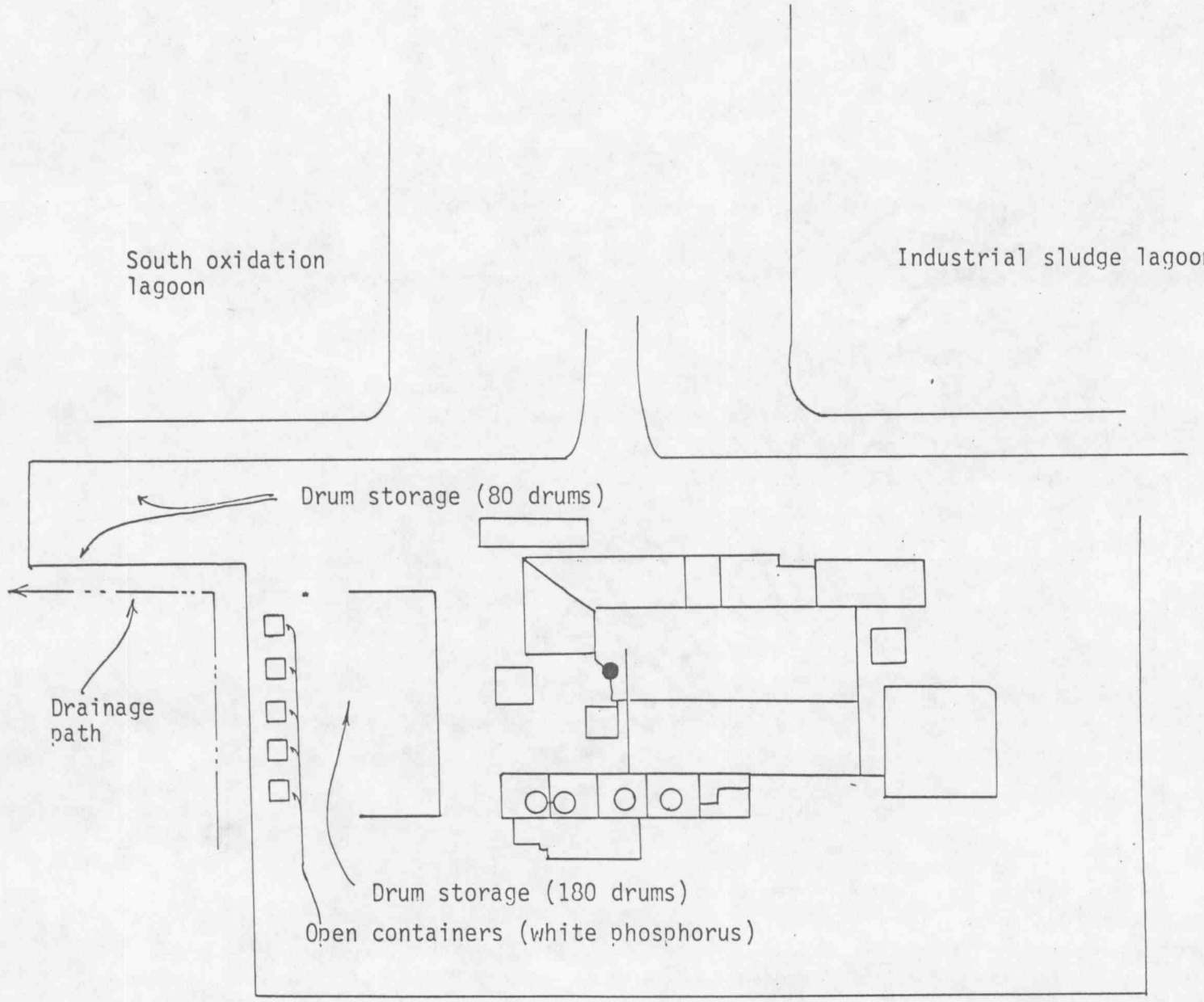
Site 39 Pine Bluff Oxidation Pond

Scale 1 inch = 2000 feet USGS map White Hall, Ark.

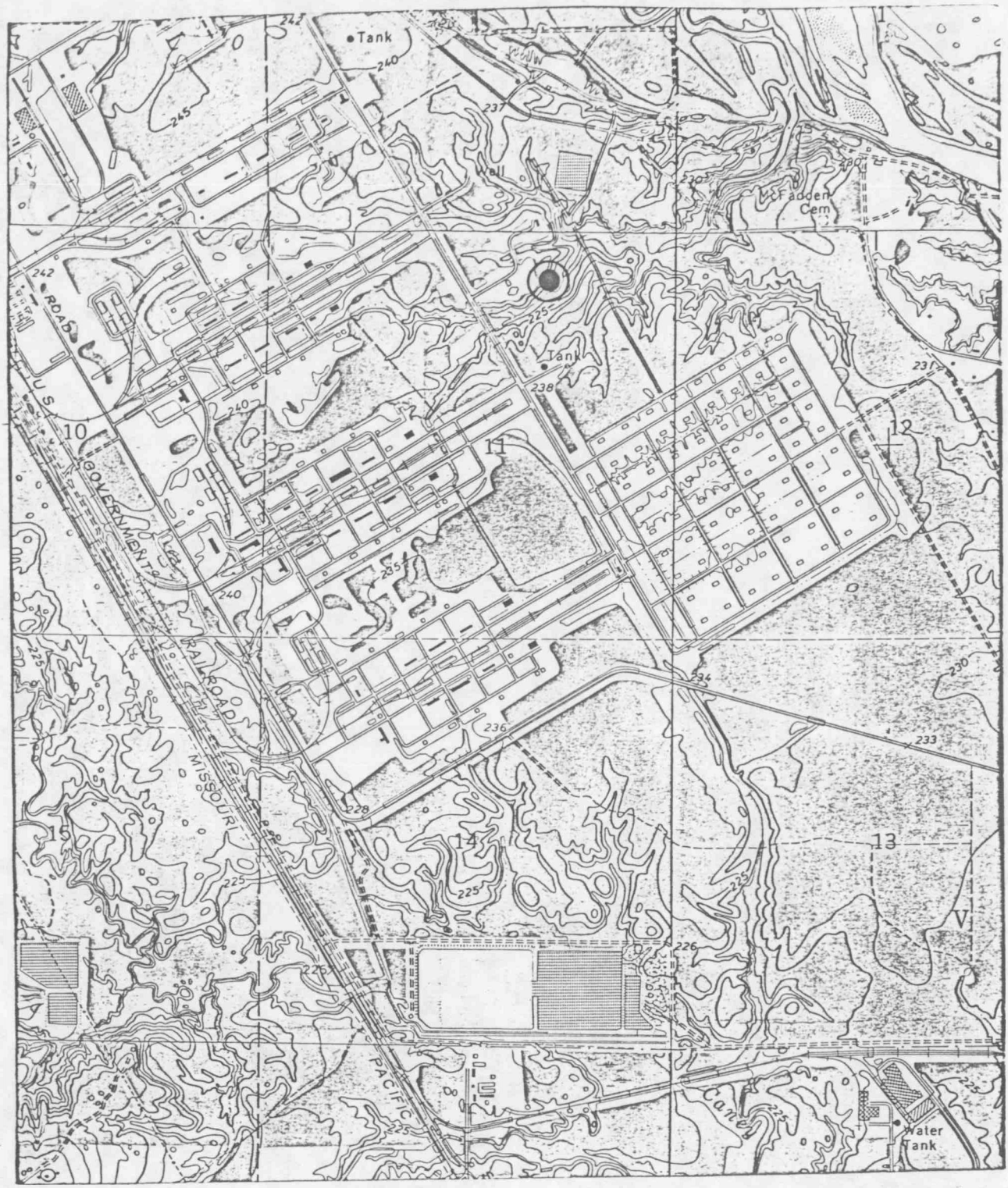


Site 40 Incinerator Complex

Scale: 1 inch = 2000 feet USGS map White Hall, Ark.

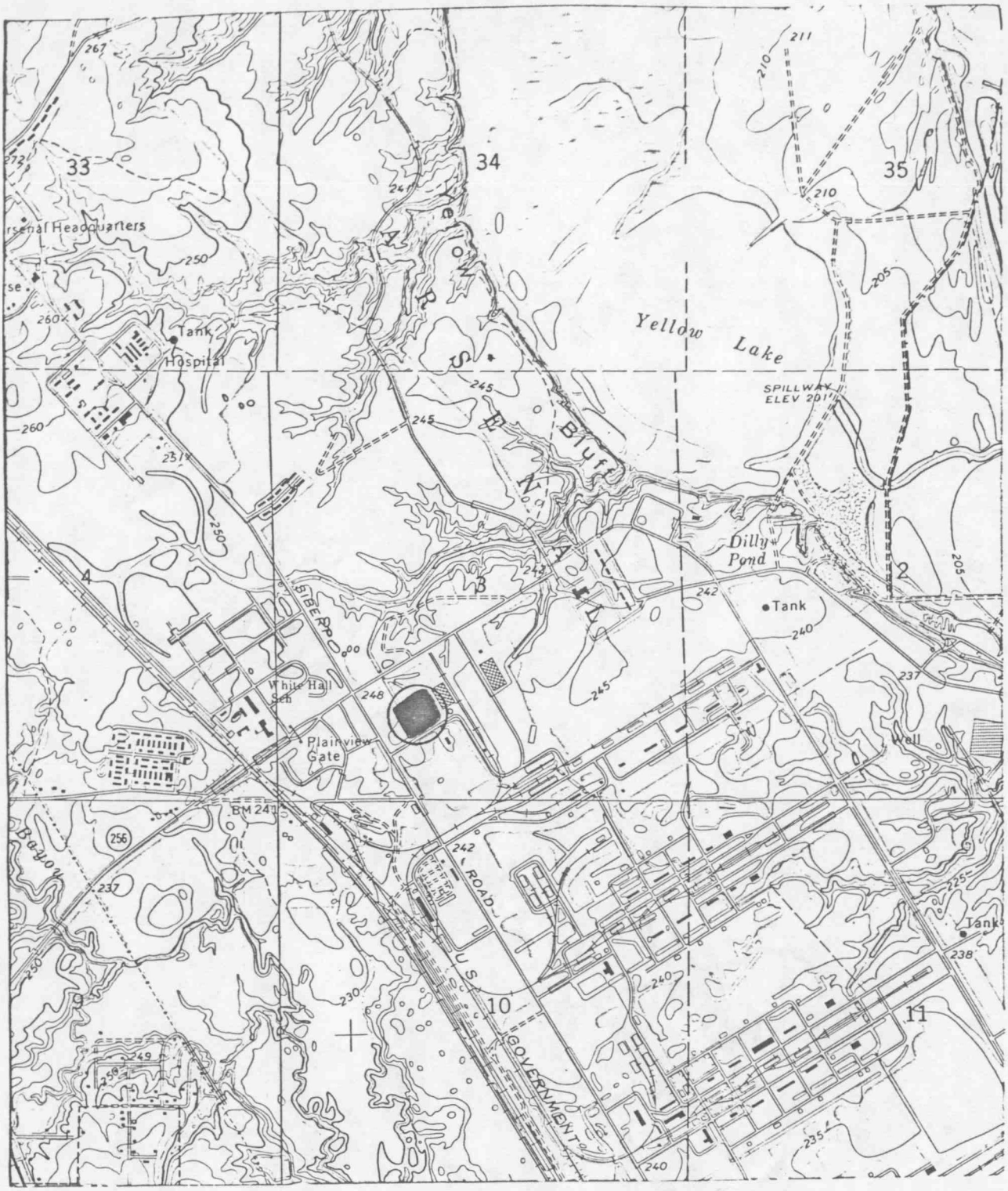


SITE 40 INCINERATOR COMPLEX



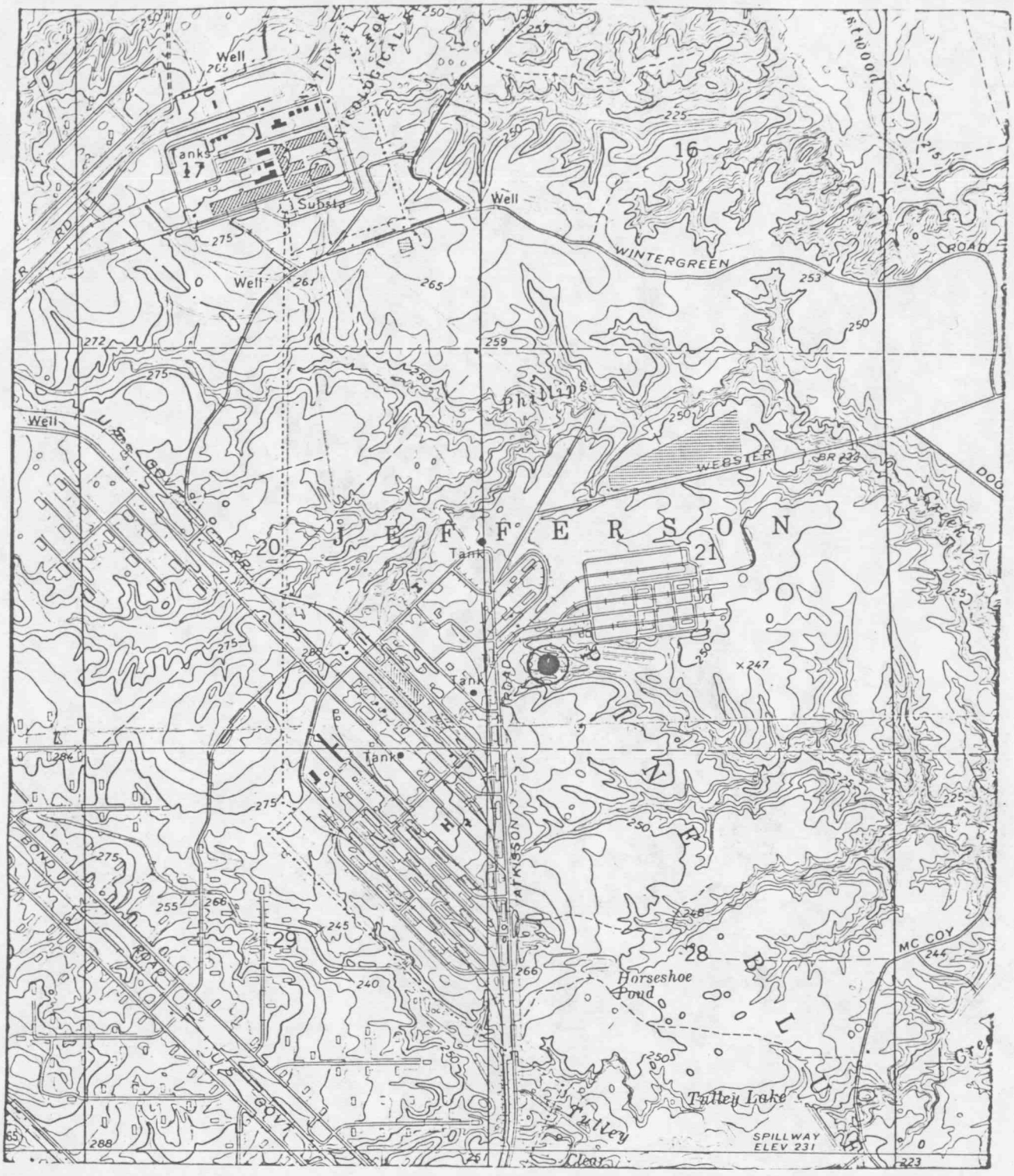
Site 42 Backwash Pond

USGS



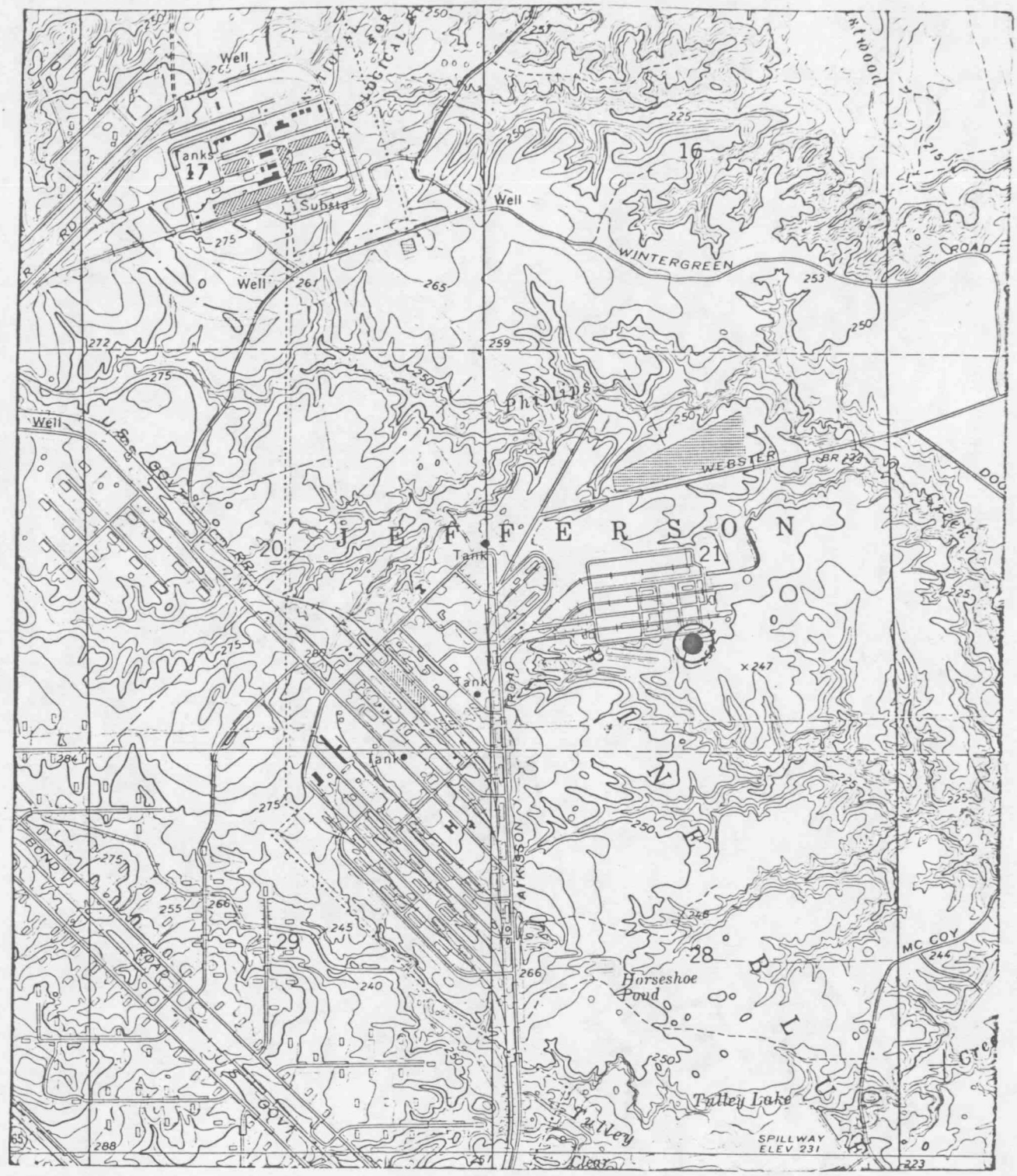
Site 43 White Phosphorus Pollution Abatement Facility

Scale: 1 inch = 2000 feet USGS map White Hall, Ark.



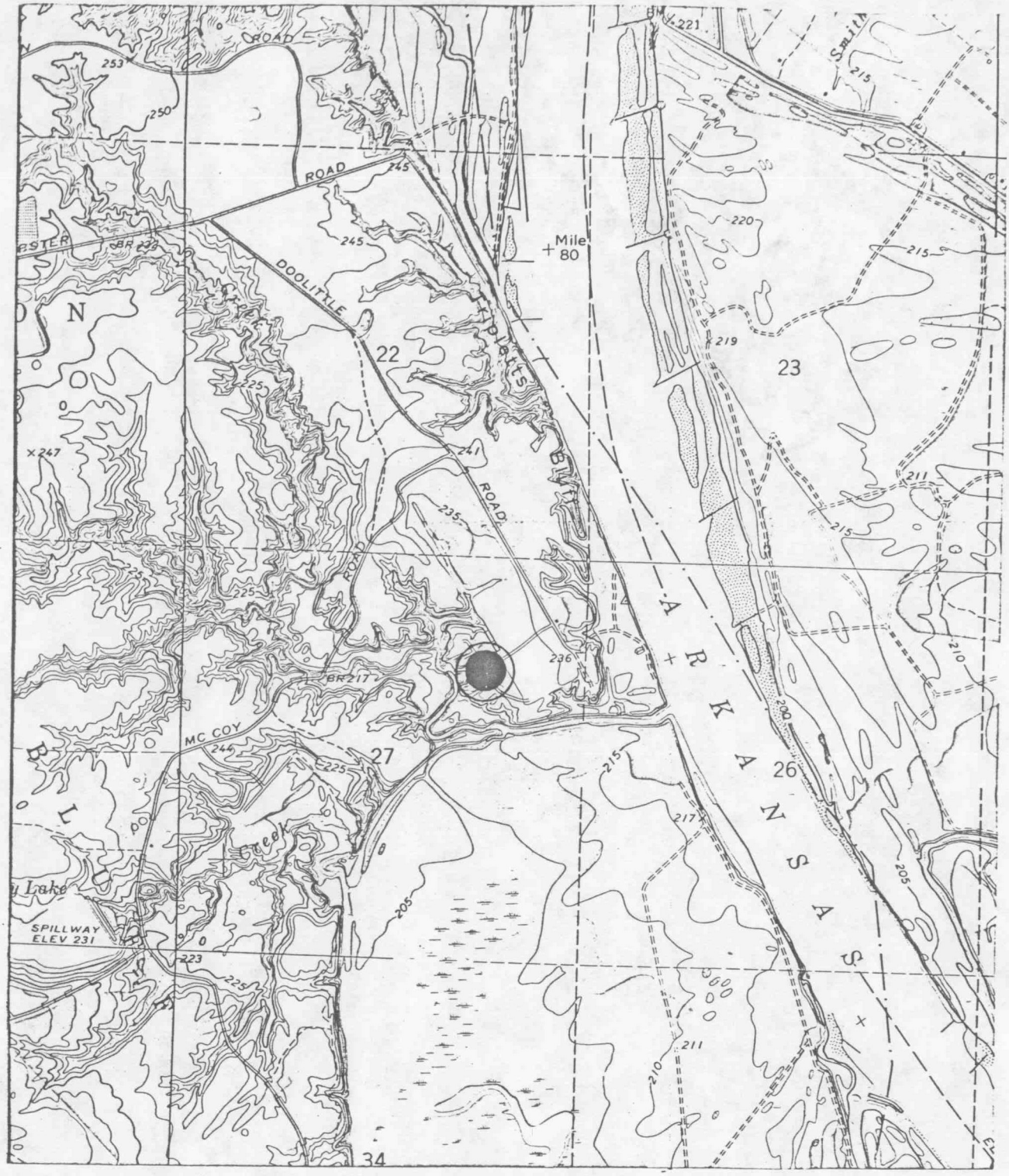
Site 7b Lewisite Disposal Site

USGS



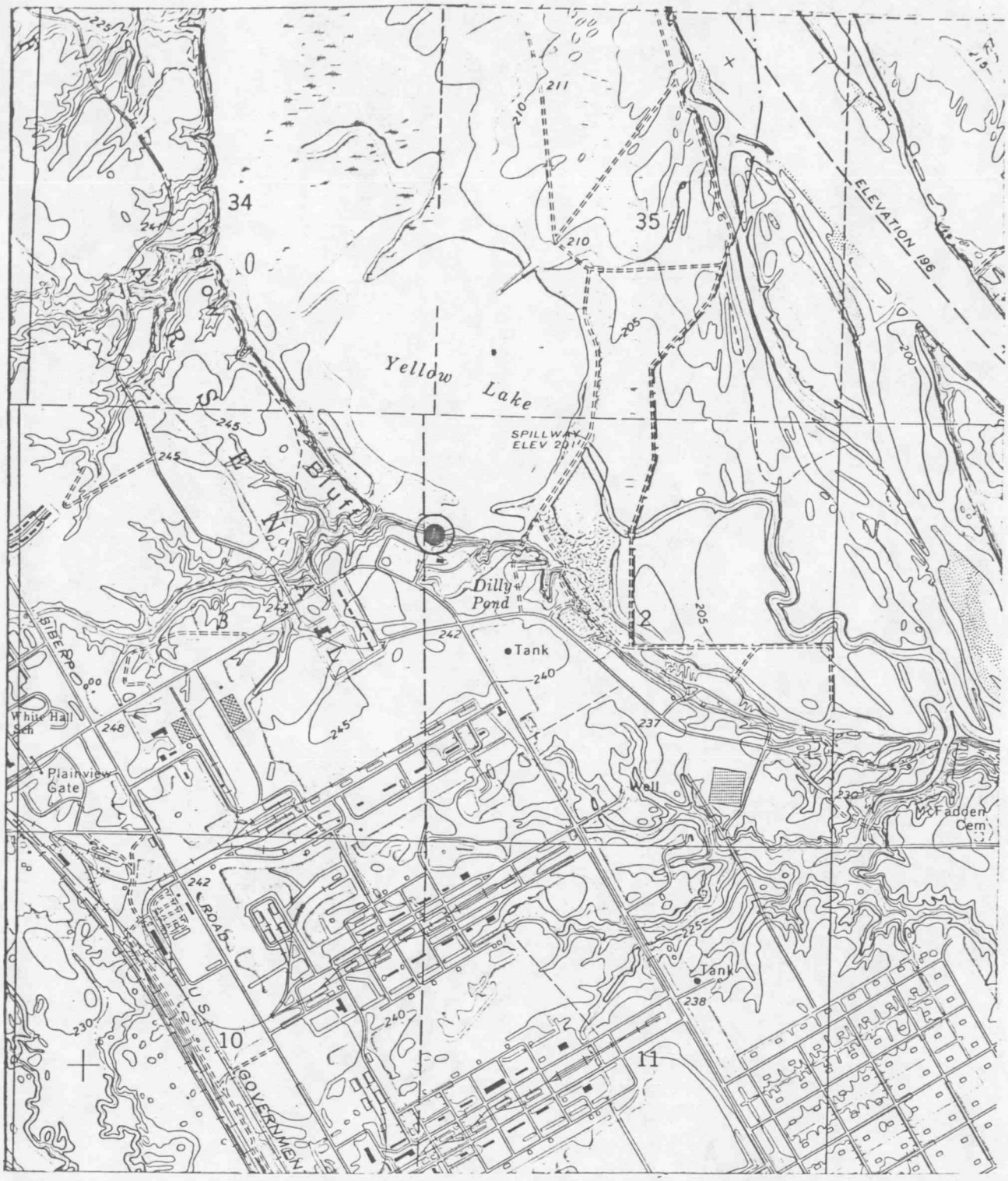
Site 7c Mustard Burn Yard

USGS



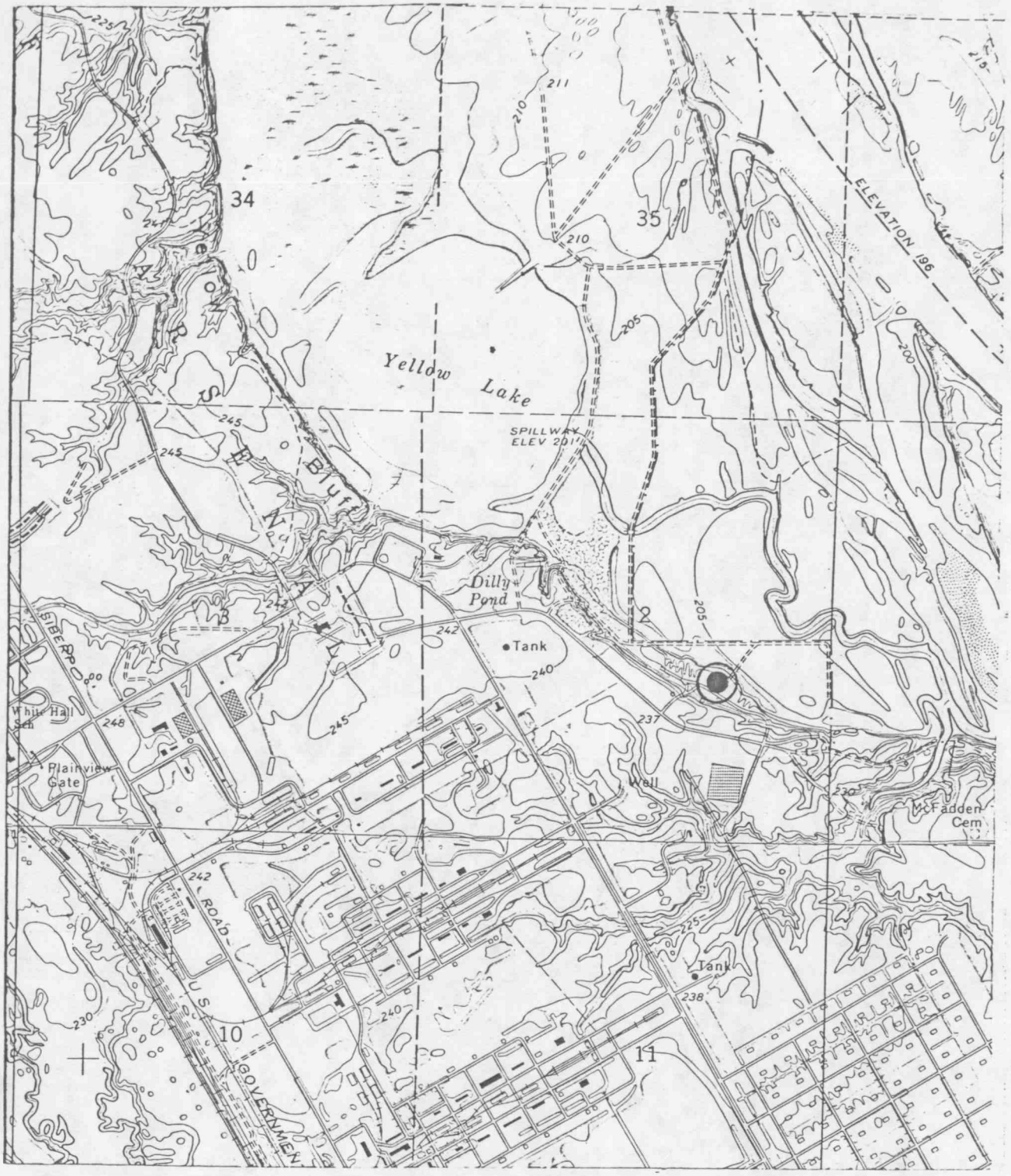
Site 10 Depot Burning and Demolition Area

USGS



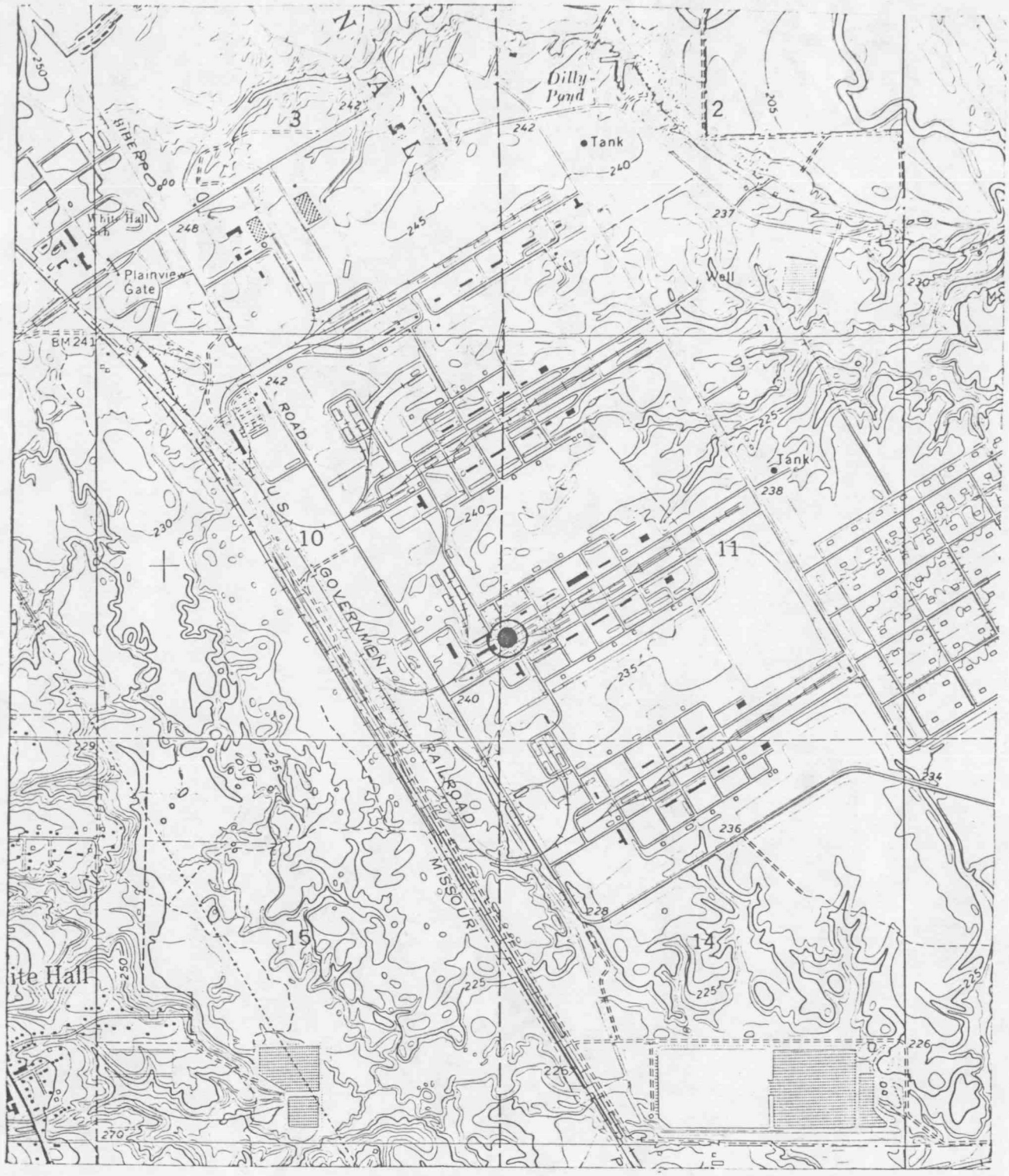
Site 17 Product Assurance Test Range and Dump Site

USGS



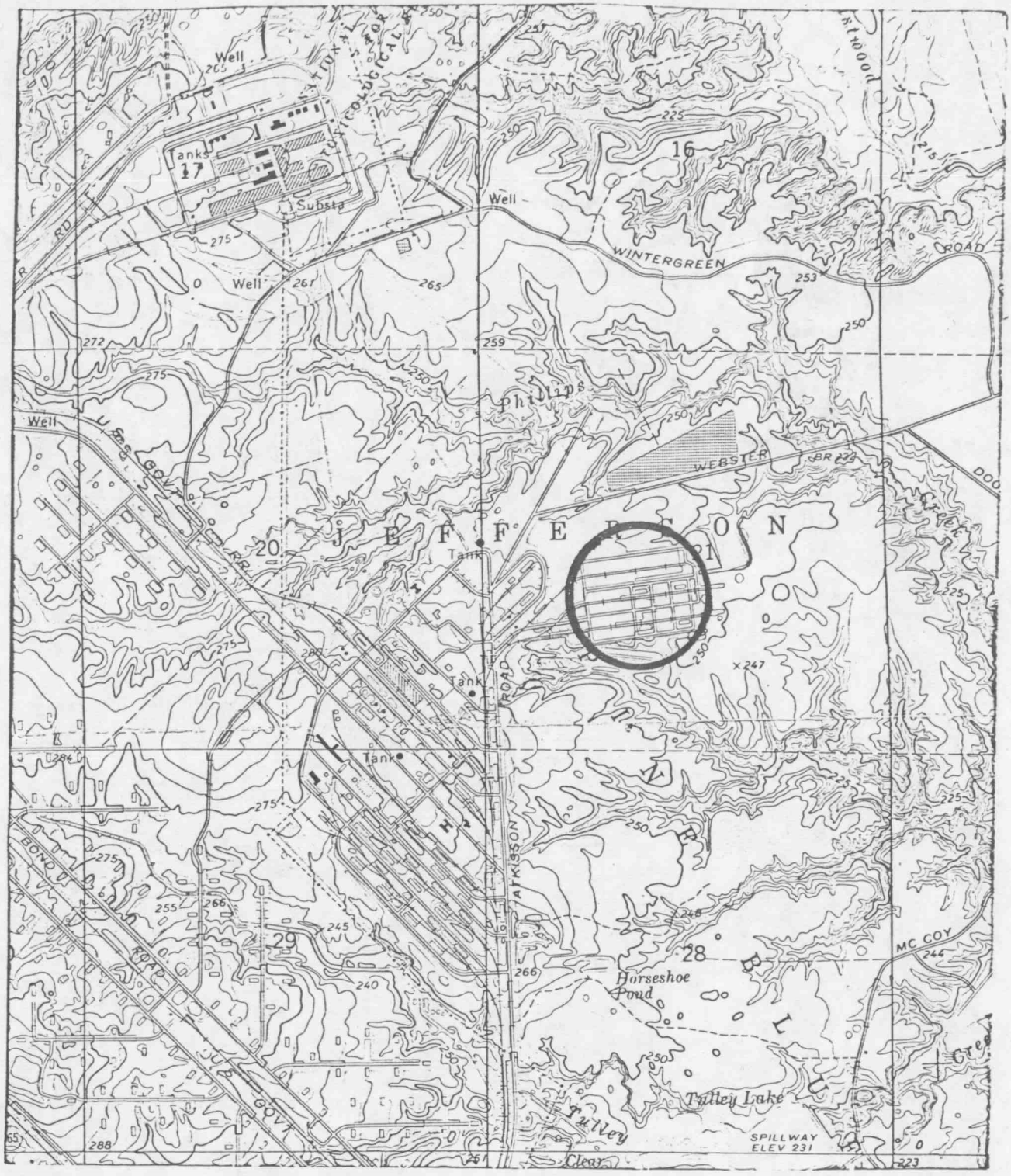
Site 20a Depot South Burn Pit and Storage Area

USGS



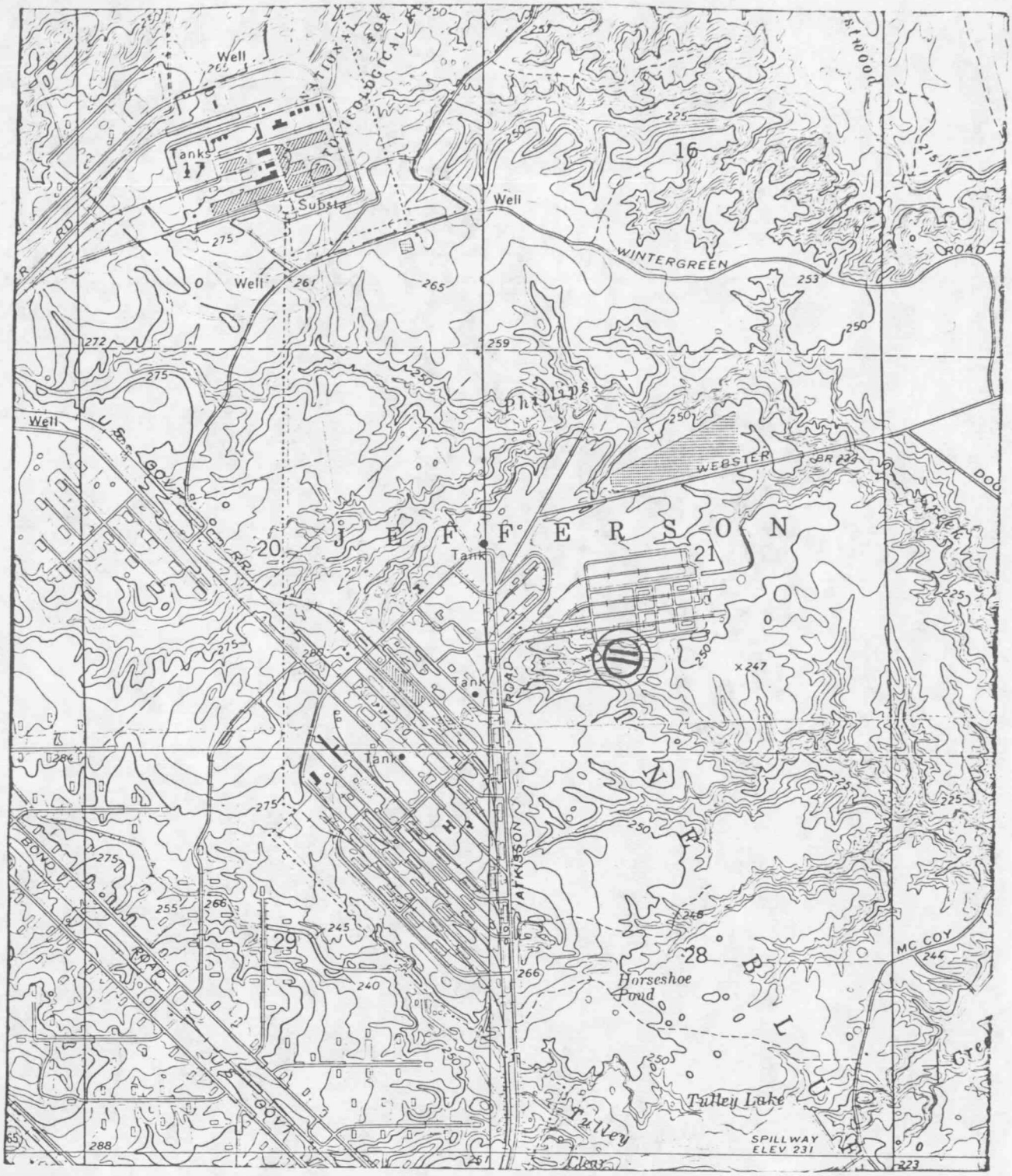
Site 38 Impregnite Sludge Pit

Scale: 1 inch = 2000 feet USGS map White Hall, Ark.



Site 7a Toxic Storage Yard

USGS

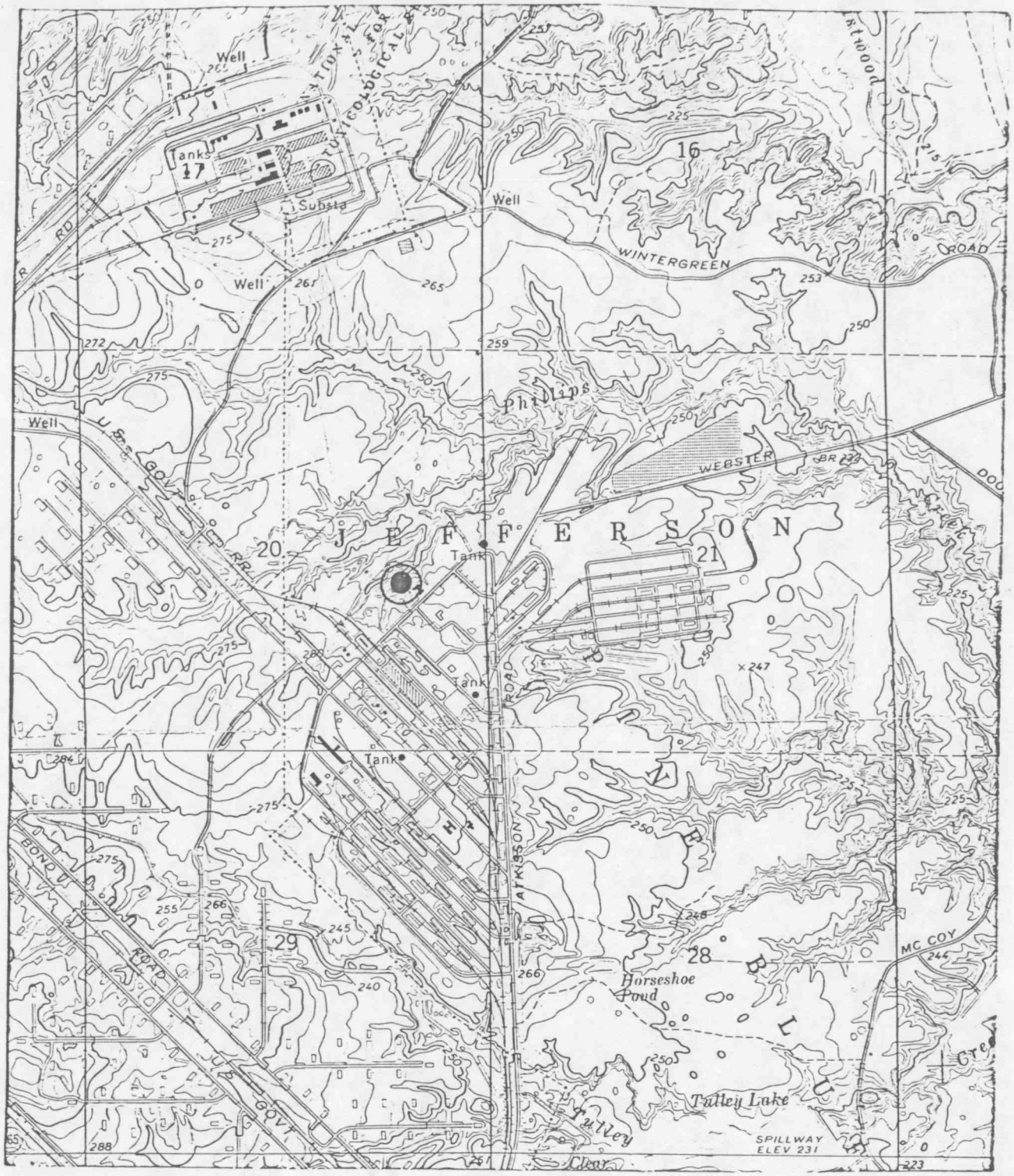


Site 7d TSY Borrow Pits

USGS

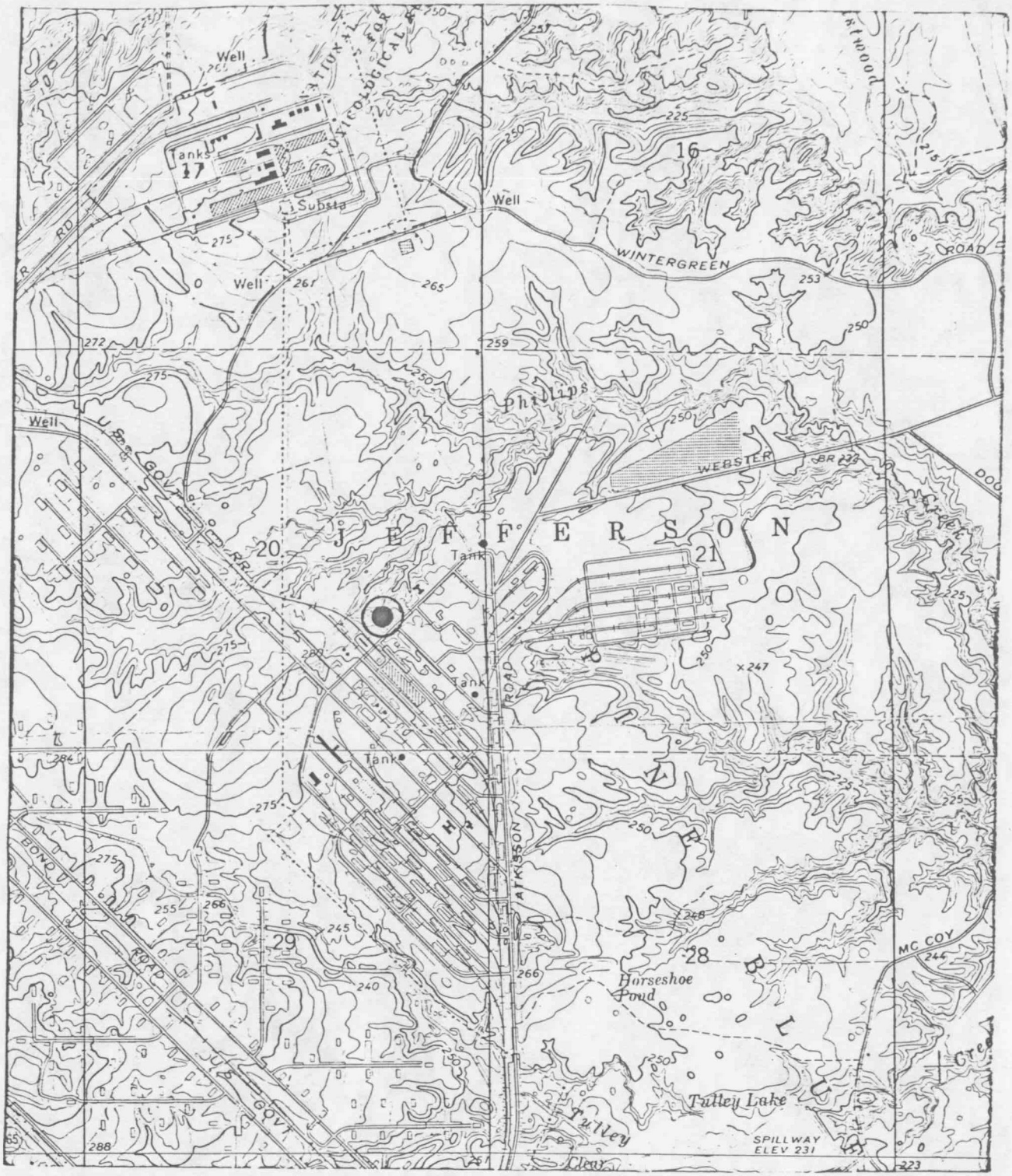
Site 7d TSY Borrow Pits

USGS



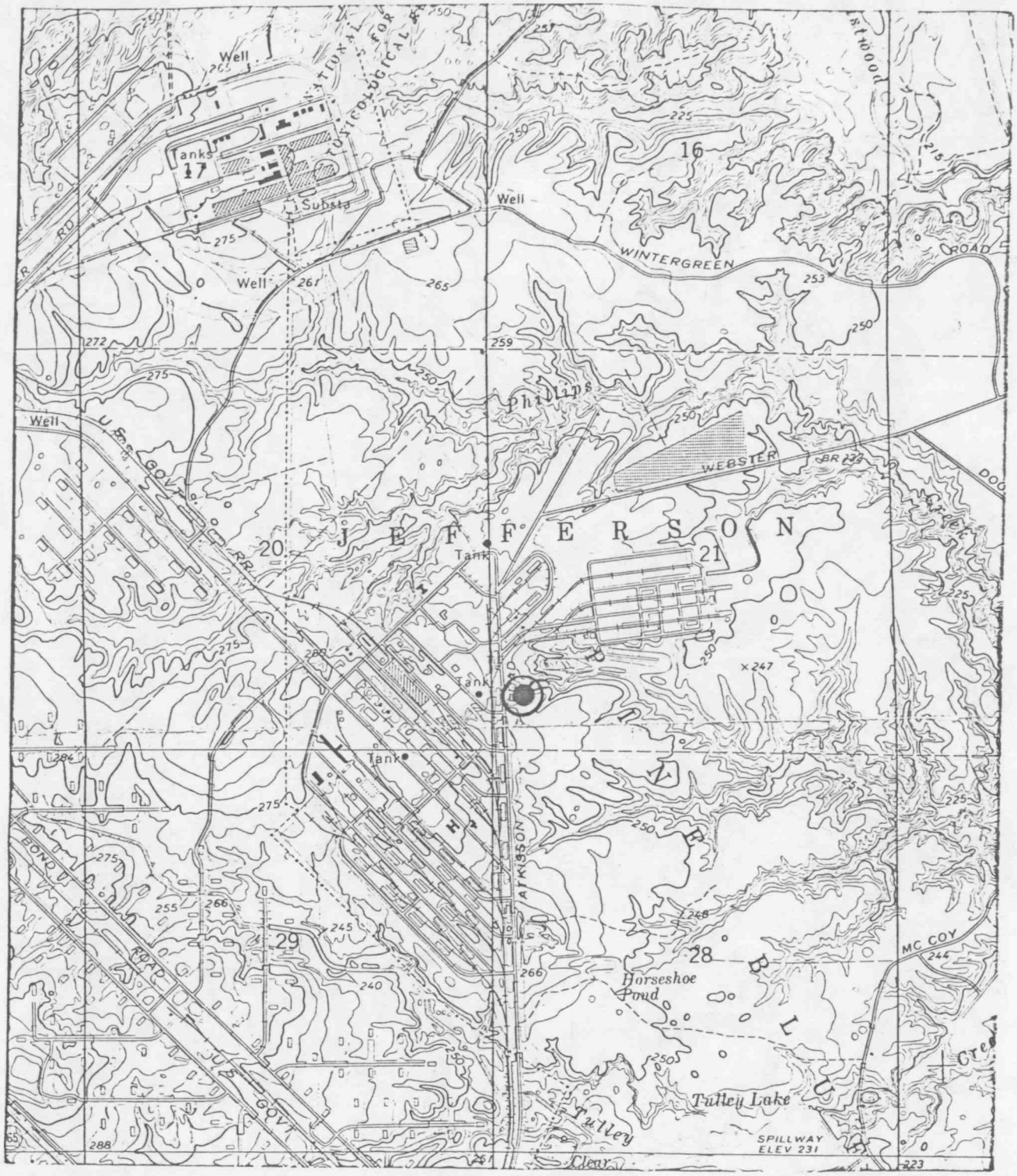
Site 11a Sediment Retention Basin # 1 (SRB-1)

USGS



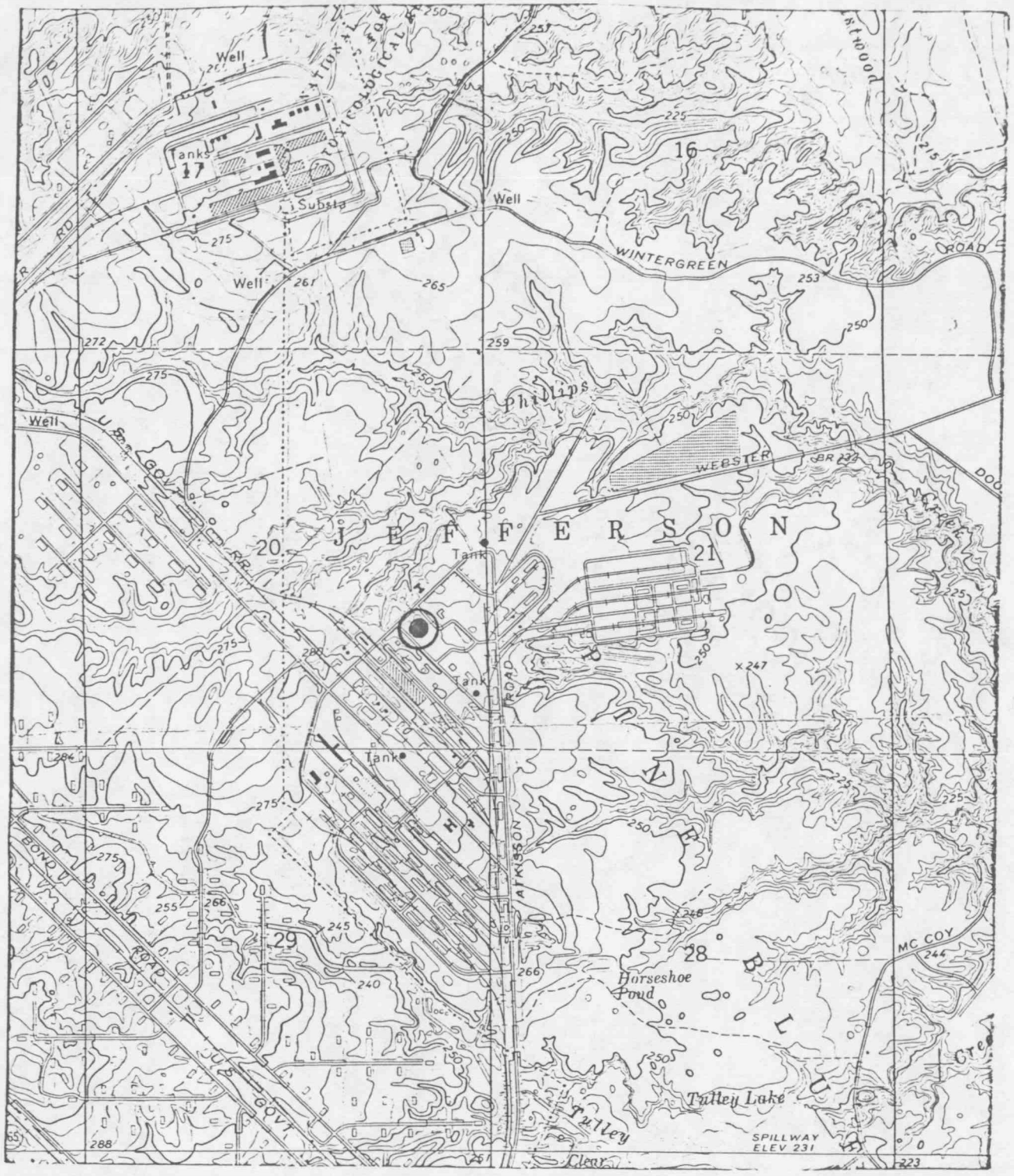
Site 11b Sediment Retention Basin # 2 (SRB-2)

USGS



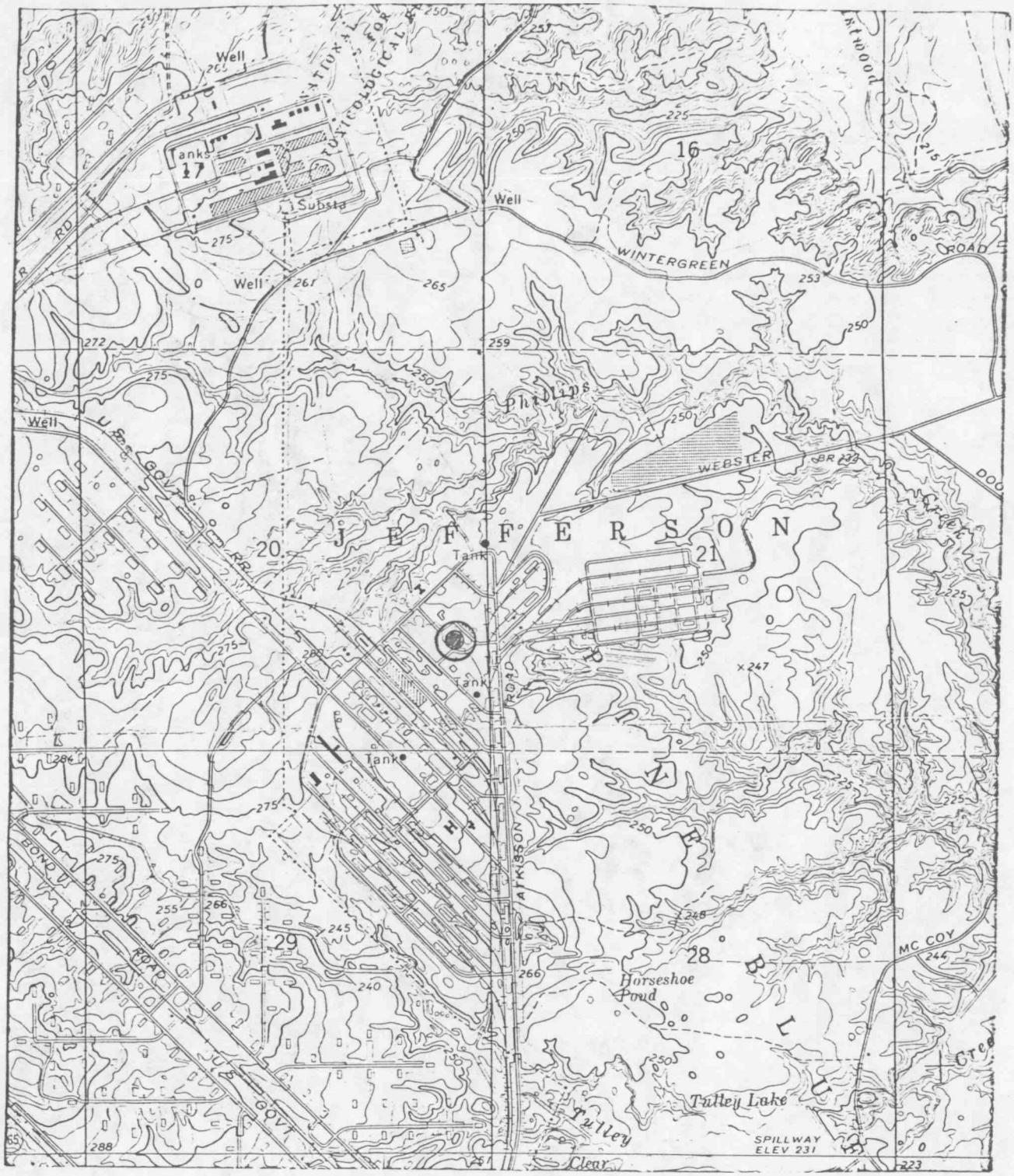
Site 11c Sediment Retention Basin # 3 (SRB-3)

USGS



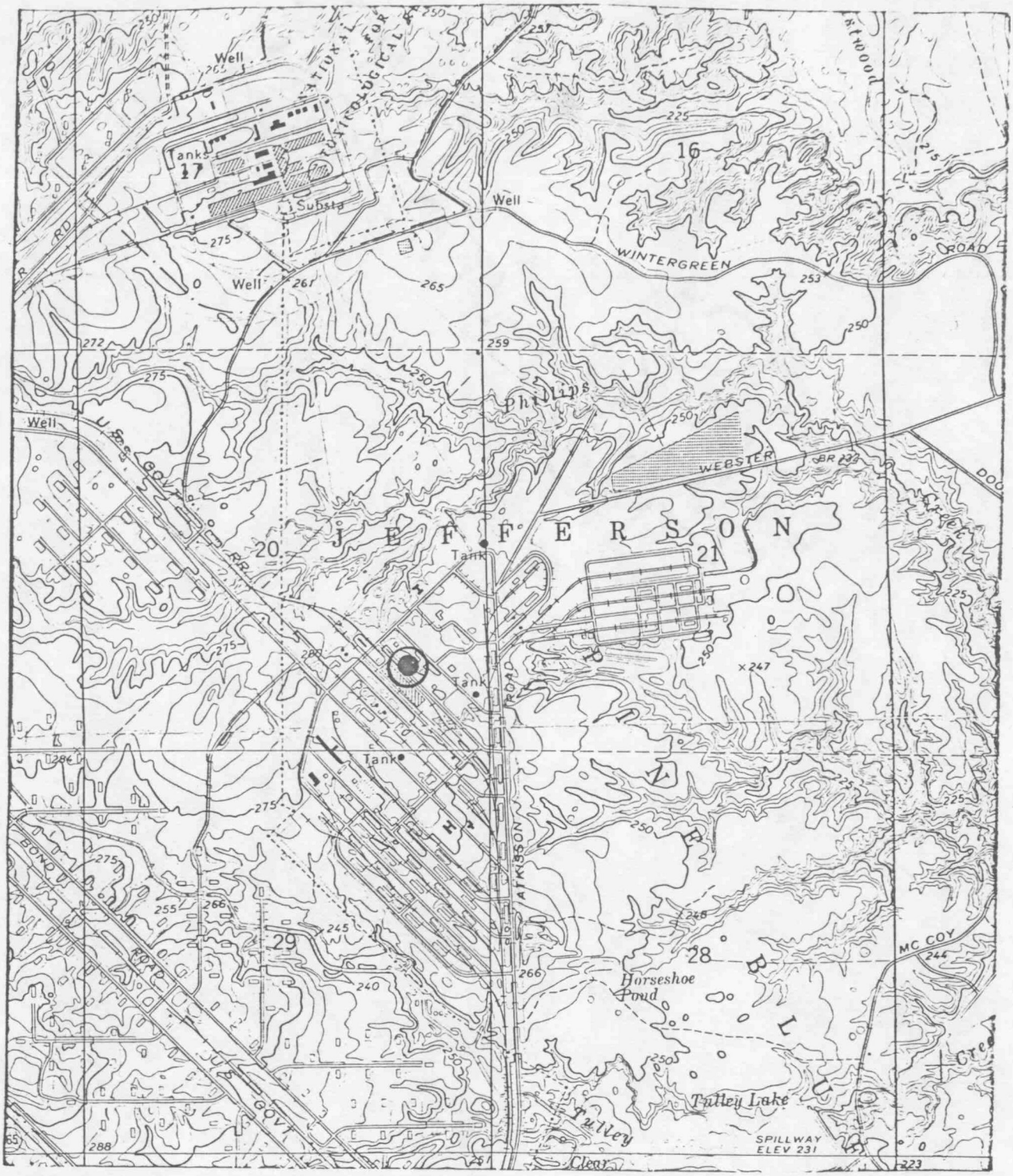
Site 11d DDT Storage in Basement, Bldg. 54-270

USGS.



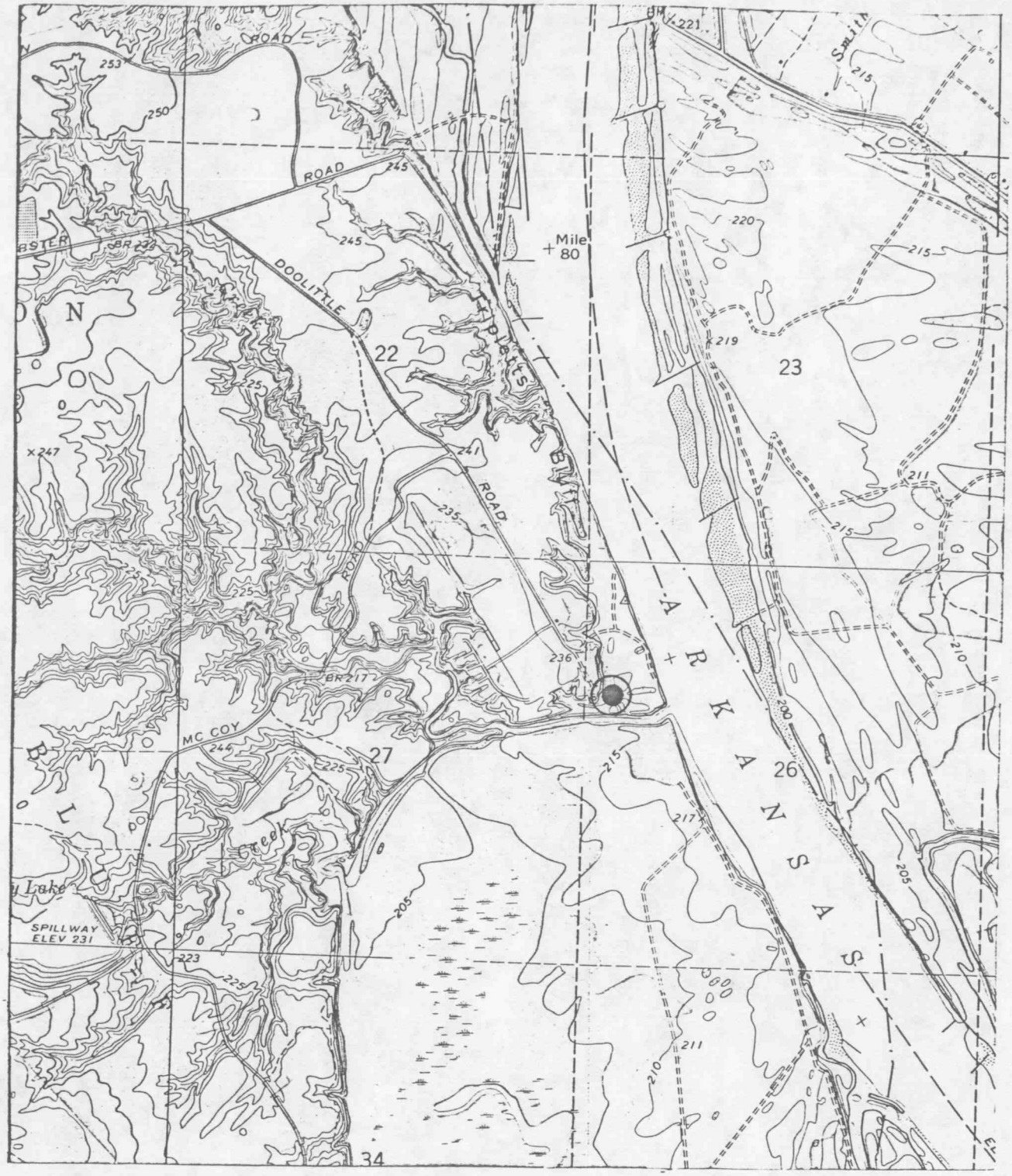
Site 11E DDT Basement Storage, Bldg. 54-325

USGS



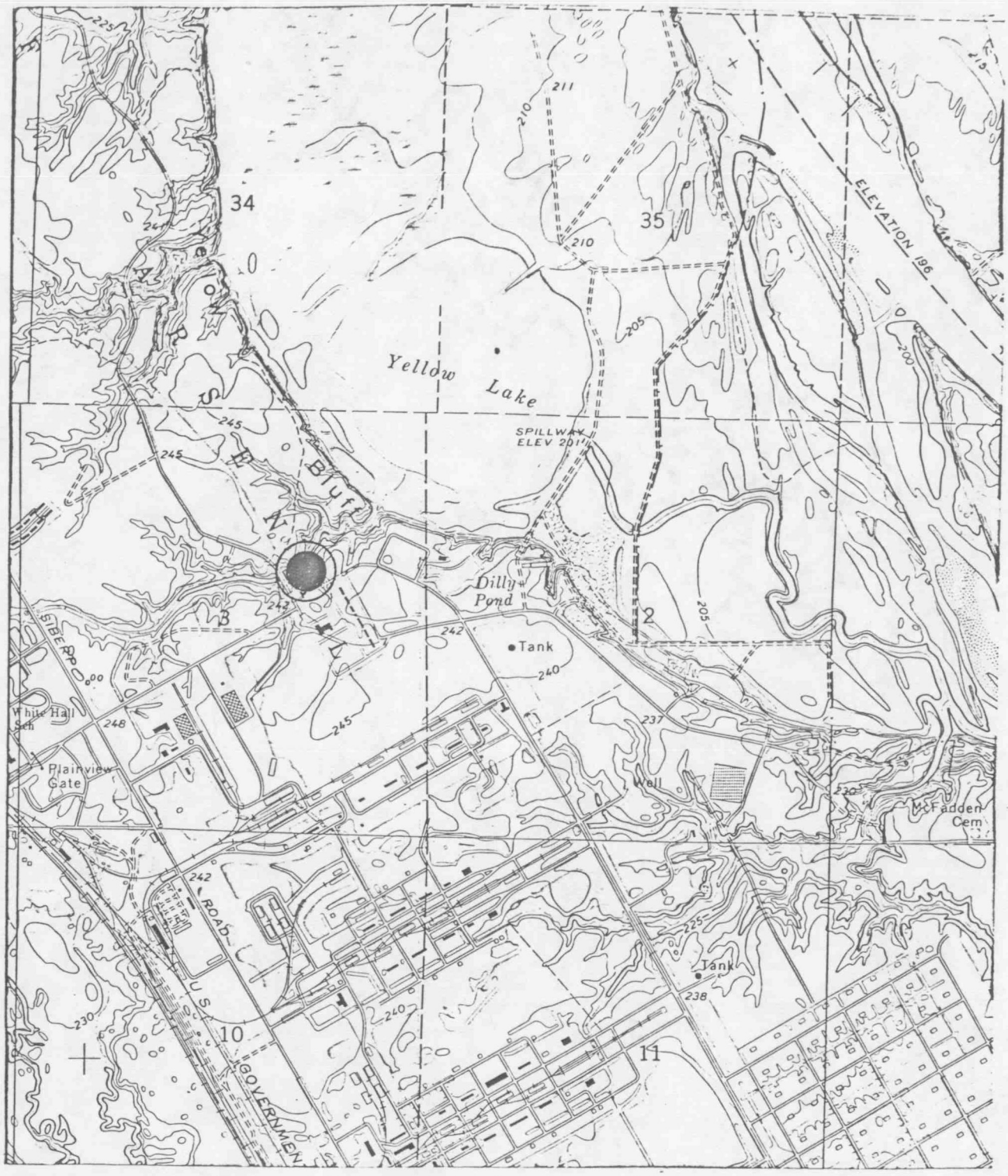
Site 11f DDT Waste Landfill

USGS



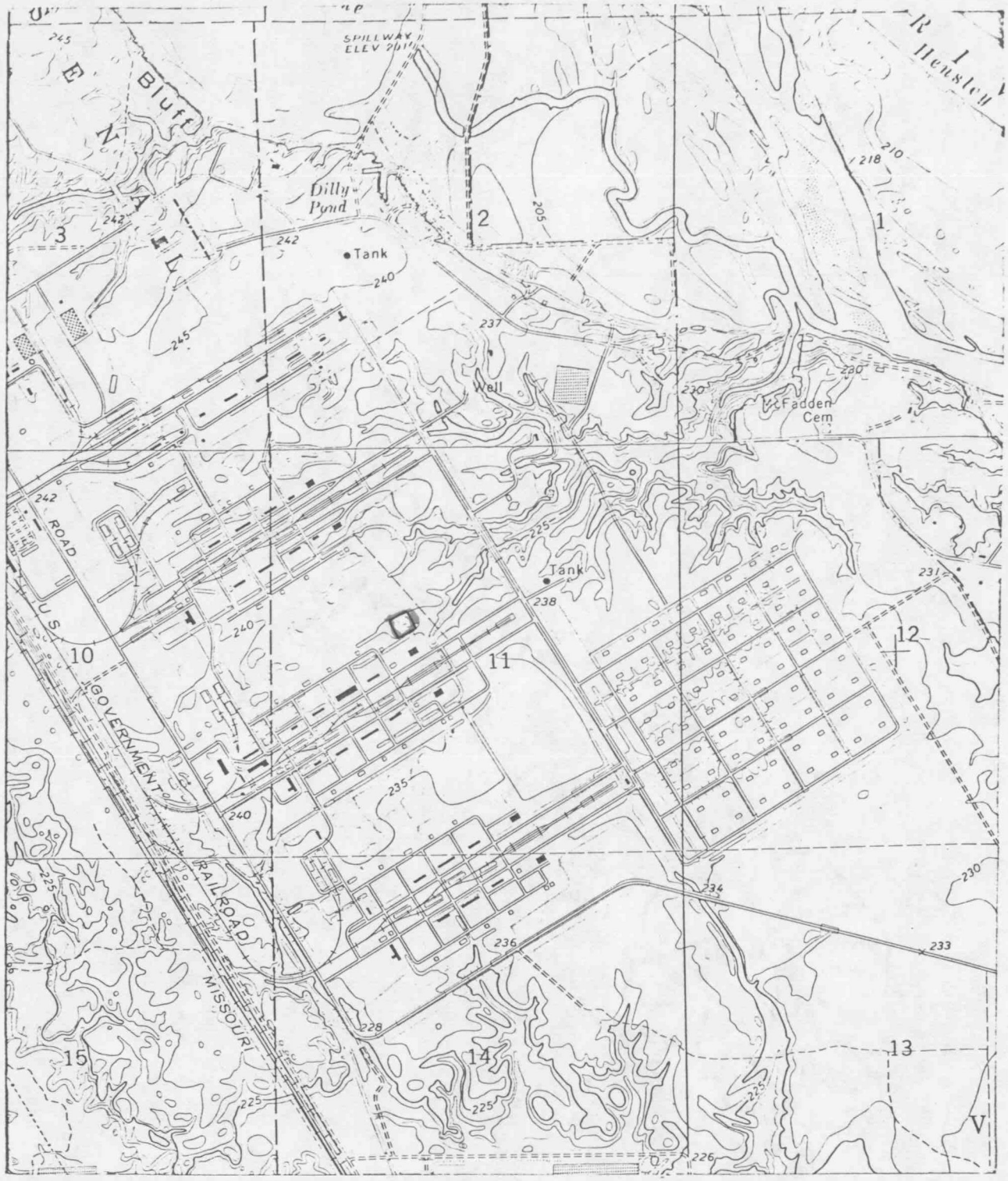
Site 12 Abandoned Mustard Burn Pits

USGS



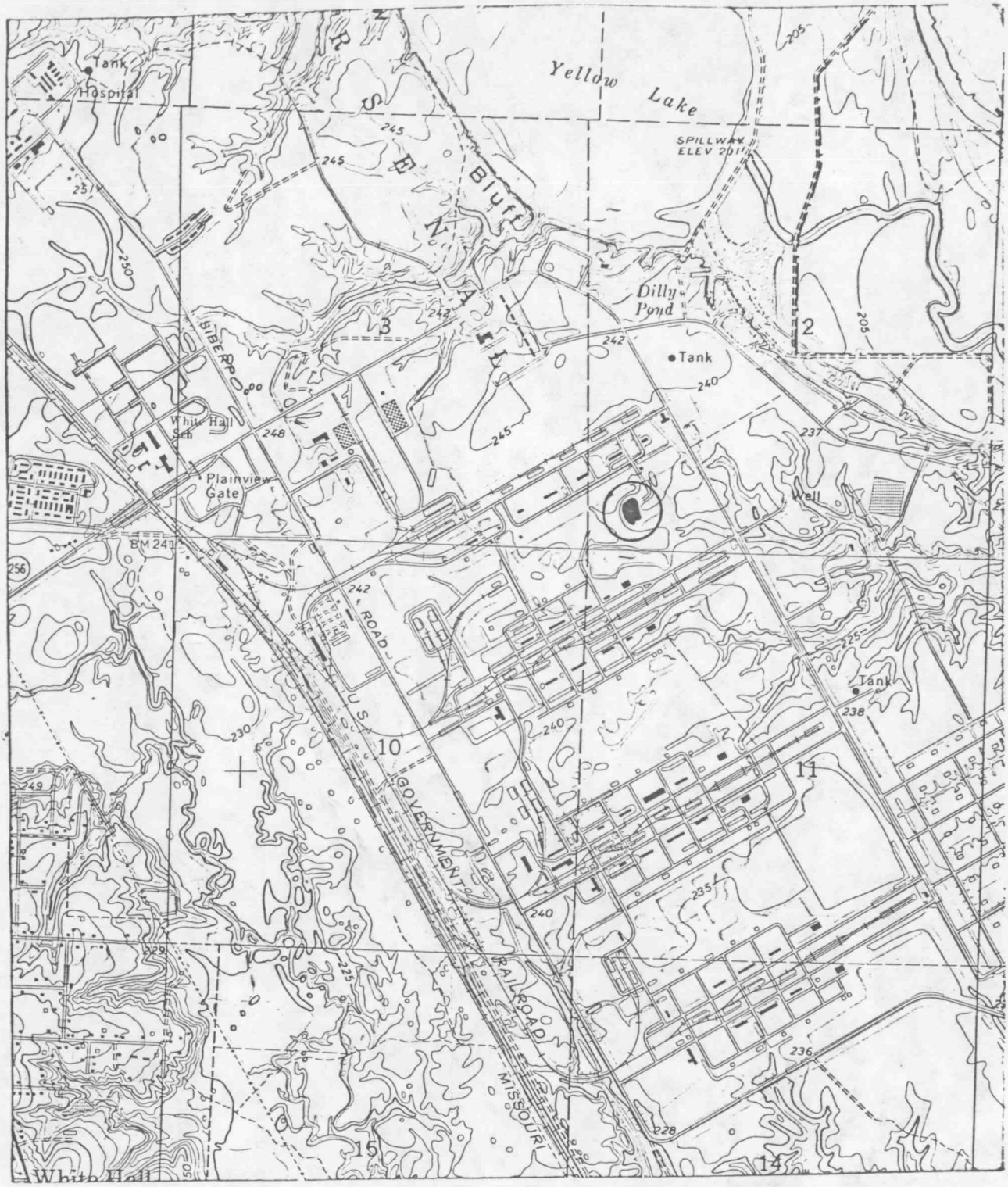
Site 15 Sanitary Landfill

USGS



Site 27 Agent BZ Pond

Scale: 1 inch = 2000 feet USGS map White Hall, Ark.



Site 23 a White Smoke Test Pond

Scale: 1 inch = 2000 feet USGS map White Hall, Ark.

Photo Legend

Photos	Site
1,2	16a
3,4	18a
5	18b
6,7,8	20b
9,10,11	24
12,13,14	26
15	29a
16,17	31a
18	31b
19	34
20,21	35
22	36
23	37
24	39
25,26,27,28,29	40
30	42
31	43
32,33	7b
34,35	7c
36,37,38,39	10
40,41,42	20a
43,44	38
45,46,47,48	7a
49,50	7d
51,52	11a
53,54	11b
55,56..	11c
57	11d
58	11e
59	11f
60	12

Photos	Site
61	15
62,63	27
64,65	23
66	Sample Location 01
67	Sample Location 02
68	Sample Location 03
69	Sample Location 04
70	Sample Location 05
71	Sample Location 06
72	Sample Location 07
73	Sample Location 08
74	Sample Location 09
75	Sample Location 10
76	Sample Location 11
77	Sample Location 12
78	Sample Location 14
79	Sample Location 13

PLEASE

INSERT

COLOR

FILM

SLIDES